City of Cambridge

Massachusetts

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THE MAYOR'S ADDRESS

AT THE

ORGANIZATION OF THE CITY GOVERNMENT

JANUARY 2, 1905

AND

THE ANNUAL REPORTS

MADE TO THE CITY COUNCIL

FOR THE YEAR 1904

PUBLISHED BY ORDER OF THE CITY COUNCIL
UNDER THE DIRECTION OF THE
CITY CLERK

CAMBRIDGE PUBLIC LIBRARY

INAUGURAL ADDRESS

OF

HON. AUGUSTINE J. DALY

JANUARY 2, 1905

Gentlemen of the City Council:—

Again our municipal year is beginning. We, who have been chosen to represent and act for the City, should be sensible of our responsibilities, and resolve to so conduct ourselves in office that the year 1905 may end with a record in the harmonious management of the business of the City second to none in her history.

The debt valuation, borrowing capacity and limit of taxation are set forth in the following table:

	1904.
Funded City Debt	$5,880,400 00
Sinking Fund	873,343 60
Net Funded City Debt	$5,007,056 40
Funded Water Debt	$3,350,600 00
Sinking Funds	1,218,686 74
Net Funded Water Debt	$2,131,913 26
Net Valuation	$103,263,625 00
Borrowing Capacity	501,434 60
Limit of Taxation for Municipal Purposes, outside of the Sinking Fund requirements, State and County Taxes and Metropolitan Assessments based on the net valuation	$1,239,163 00
Amount of Funded City Debt to be paid off in 1905.	$223,000 00

WATER DEPARTMENT.

Although this department in the financial year just closed was obliged to spend $15,000 for Metropolitan water, its deficit is only $3,882.88. The Board has spend $12,500 for the improvement of Kingsley Park at Fresh Pond during the year.

The reduction of the net debt during the year has been $155,865.28. The City has spent, or will spend for its water supply, $5,772,507.13, has more than enough water in its storage basins to supply its wants, and yet it has had to buy Metropolitan water twice the past year. The natural question is, why? and the answer is — because its main pipe from the reservoirs to Fresh Pond will not deliver enough water each day to supply the City.

It was proposed to build a new pipe line during the past year, but the Common Council refused to pass the order for the appropriation. After the controversy which took place about this matter it is needless to go into the details.

I recommend that the City Council take up this question at once. In the report of the Water Board will be found figures and arguments explaining its necessity. I earnestly hope that there will be no delay on this subject, since, if an appropriation is made at once, the Board can begin to get ready for the construction as soon as the weather will permit. One section should be constructed this year, so that a sufficient supply can be brought down for the needs of the City.

STREET DEPARTMENT.

During the year just closed there has been devoted to the work of this department time and energy by its Superintendent and sub-officers. It has been a year of accomplishment. In the report of the Superintendent will be found details.

I wish to call the City Council's attention to five things which are especially recommended for your consideration in the coming year, in addition to the general needs of the department :—

First. The building of the subway under the Fitchburg Railroad tracks.

Second. The widening and construction of Bolton Street.

Third. The widening and construction of Concord Avenue.

Fourth. The rebuilding of Cambridge Street, from Inman Square to Memorial Hall.

Fifth. The use of the Street Railway Tax as a separate fund for snow removal and rebuilding of streets.

The money derived from this tax has been devoted to these items the past year. It should be so used every year. It will amount to $68,914.72 in this financial year, and, if the average sum is used for snow removal of from $5,000 to $10,000, the balance will make a handsome showing in the permanent rebuilding of such a street as Cambridge Street, as it has this year in brick paving Massachusetts Avenue from Lafayette Square to the Railroad Crossing, completing River Street, Cambridge Street from Prospect Street to Inman Square, rebuilding asphalt on Massachusetts Avenue near Harvard Square, and the permanent building of Linden, Plympton and Prince Streets.

If this policy is followed for the next ten years, probably from $500,000 to $600,000 will be spent on our streets for permanent improvements outside of the General Maintenance.

It is necessary, as well as desirable, that the City Council take some action looking toward the disposal of the light refuse which is collected throughout the City. The light material is now burned in public places used for dumps. Complaints from surrounding property owners and tenants are loud and bitter. Some years ago provision was made for building a crematory at the Raymond Street Yard. I bring this matter to your notice, and I recommend that action be taken during the present year.

PUBLIC BUILDINGS.

This department during the past year has given to the schoolhouses and public buildings of the City, attention which was sorely needed. I cannot here go into details, but I wish especially to call your notice to the work done on the City Hall, Brattle Square Build-

ing, the Wellington, Willard, Agassiz and Manual Training Schools. These are only types, because almost every schoolhouse in the City has been repaired to some extent. The new Houghton School has been begun, and will be ready for use next fall. The new engine house in Ward 10 is practically completed, and the appropriation has been made for the apparatus; as soon as it can be procured the City Council will be asked to make an appropriation for the necessary increase of the fire force to man this house.

In the present year we should continue as far as possible the policy of keeping our public buildings in first-class repair.

I bring to your attention the matter of the rifle range. As the 600-yard range at Lexington has been condemned, it will be necessary for us to provide another place, or to make a contract with some other range for rifle practice during this year.

POLICE DEPARTMENT.

Perhaps no department of the City is of more interest than this. All take pride in its efficiency and good standing. Without doubt we can congratulate each other that, as at present constituted, it is doing the work splendidly.

During the present year the park police have been consolidated with the regular force, and, with the additions, makes the total force 126 men.

The putting of sergeants on the street at night in charge of the men, has been eminently successful. The Chief is so well pleased with the work that he recommends the creation of three new sergeants for day duty, to have charge of the men in the day time.

District One must either be divided, and a new station provided for Wards 10 and 11, or a new central station built for the whole district, and the use of the Brattle Square building be discontinued as a police station.

I recommend a new station for the district as it now is, in a location more central. Then the present rooms in the Brattle Square building can be fitted up as a place of detention for women, and also

as a place for persons awaiting trial in the District Court. The expense of maintenance would be much less than if a new district should be made

MILK AND VINEGAR.

I wish to ask your perusal of the very concise and interesting report of the Inspector of this department. In the report reasons are set forth why the department should be provided with more room to properly carry on its work. It would seem that the request is one that should properly be granted; therefore I recommend that sufficient room be given in some other building for the proper conduct of its investigations. Also, that the Inspector and Deputy Inspector be employed full time, instead of half time as is the rule now.

WIRES.

The Police Telephone System in District One has been overhauled and remedied, so that this district is now well equipped. In the report of the Superintendent will be found a strong plea for keyless boxes, a new Central Fire Alarm Station, and for putting the City wires underground. There can be no question that each of these improvements is desirable. They should receive earnest thought and consideration, as they would undoubtedly tend to more efficient and more economical service.

Street lights have been increased to the number of forty-five during the year, including arc, incandescent and welsbach.

PARK DEPARTMENT.

I recommend the completion of the construction of the River Driveway, so that from the new Cambridge Bridge, when it is opened this year, the drive will be open along the banks of the Charles, as far as our river park extends. This driveway, in my judgment, should be completed before any other park work is undertaken. The expense of maintenance is an increasing one. The parks we now have should be well kept in the highest state of

efficiency. With the burdens which the new Cambridge Bridge, the Brookline Street and the Boylston Street Bridges, together with the Charles River basin project will put upon us, we cannot afford at the present time to spend large sums to develop our parks, excepting for this construction.

OVERSEERS OF THE POOR.

During the year just passed this department has given much time to its work, resulting in a most satisfactory state of affairs. It is to be regretted that Mr. John R. Fairbairn could not longer serve, as he had been a valuable acquisition to the Board's efficiency. The affairs of the department are in excellent shape. The City Home is beautifully kept and cared for by the Superintendent, matron, and their subordinates. Improvements have been made in the buildings, a new fence has been built. The income from the farm and offal department has been increased materially over that of past years.

CITY ENGINEER'S DEPARTMENT.

During the past year the Franklin Street District, also the Wadsworth and Carleton Street Districts sewerage, both sanitary and storm, have been completed.

The repairs on the Binney Street sewer, which were undertaken the past year, have not been fully completed. It is recommended that the work should be finished during this year. I also recommend that the sewerage systems in the Cambridge Street District, and the Washington Street District, which were begun the past year, shall be completed during this present year. The Engineer's report shows that a large volume of business has been done by this department during the year in relation to the Parks, the Streets, the Water Works and the Bridges, especially.

FIRE DEPARTMENT.

I cannot allow this occasion to pass without regretting the loss of the services of Chief Casey by retirement, at the end of his more than fifty years of service.

The department during the past year has been administered within its appropriation; the apparatus connected with the department is in good working condition, with the exception of one steamer, which is now undergoing repairs. During this year it will be necessary to provide permanent men for the new engine house. An appropriation has been made for the apparatus, and, as soon as it is obtained, the City Council will be asked to authorize the employment of the necessary men for the new engine house in Ward 10.

BRIDGES.

It is expected that the beautiful new Cambridge Bridge will be open for travel the latter part of this year. In the spring the engineers will begin the paving of the roadway and the building of the railing. The approaches to the bridge on the Cambridge and Boston sides will be begun as early as possible, and will be finished by the time that the main bridge is ready.

Cambridge has paid thus far upon this bridge the sum of $1,063,290.01

The Brookline Street Bridge will be constructed during the present year; the plans for the Boylston Street Bridge for which the Legislature passed an act during the past year, have not yet been determined upon.

PUBLIC LIBRARY.

The City Council of last year passed an order to remodel the old engine-house on Massachusetts Avenue near Russell Street for the purpose of establishing a branch library. Such branches have been recommended by the Trustees. This will entail an added burden for maintenance during this financial year.

SCHOOL STATISTICS FOR 1904.

Number of pupils in the day schools on the first of December	15,075
Average number of pupils for the year	14,454

Number of teachers in the day schools on the first of December	435
Cost of instruction in the day schools (this includes the salaries of teachers, superintendent, supervisor, agent, clerks, and truant officers)	$356,406 89
Cost of instruction per pupil based on the average number	$24 66
Total cost of the day schools (this includes the cost of instruction, of text-books and supplies, of incidental expenses, of the care of truants, of the care of schoolhouses, and of the transportation of pupils)	$450,310 44
Total cost per pupil based on the average number	$31 15
Average attendance at the evening schools	822
Number of teachers in the evening schools	69
Cost of instruction in the evening schools	$8,628 50
Total cost of the evening schools	$11,507 28

CEMETERY DEPARTMENT.

The Commissioners complain that the revenue from the Cemetery has decreased, owing to the limited number of lots from which selection can be made. They urge, and I recommend that a sufficient appropriation be made in order that the land remaining for disposal may be arranged for burial purposes.

The condition of the wall extending from the Winchester Avenue entrance from the boundary on Coolidge Avenue to the extremity of the Watertown line, is brought to your attention in the report of the Commissioners. It will be necessary during the coming year to begin at least its reconstruction.

HEALTH DEPARTMENT.

The most urgent need, so far as the health of the community is concerned, is a hospital for the treatment of diphtheria, scarlet-fever and measles. There is now no place in the City to which a person

ill with measles can be sent. The general health during the past year has been good. The death rate will be as low, or perhaps lower than that of the preceding year, with a fraction over fifteen per thousand persons living.

LAW DEPARTMENT.

Few people realize the amount and the importance of the business which is entrusted to our Law Department. It is the duty of this department to appear at legislative hearings in which the interest of the City is concerned, and to scrutinize all Acts of the Legislature which bear upon the City. Also to draft, or assist in drafting, all acts which are presented to the legislature on the part of the City, as, for instance, The Cambridge Bridge Act, Charles River Dam Act, Brookline Street and Boylston Street Bridges Acts. There are entrusted to this department such important matters as drafting the acts for the reclaimation of the Alewife Brook territory; the apportionment of the expense to provide for the Metropolitan Park and Sewer Construction; the question of allowance to different towns and cities within the Metropolitan Sewer District of the expense of the construction of certain main drains and sewers. This is a matter which touches Cambridge, because, if successful it would entail an enormous expense upon our City. There are now pending in the Court ninety-six cases, of which thirty-two are on the trial list; two cases are now pending for argument before the Supreme Court. There have been settled or disposed of, without actual trial, some twenty other Court cases. Two of the very important cases now pending in Court are those of Ginty against the City, claiming $27,000 for land damages for approach to the Cambridge Bridge, and the claim of John F. O'Brien, for damages, for the taking of land for the contagious diseases hospital. There is also another case of Kendall & Sons against the City for the taking of land for the approach to the Cambridge Bridge, in which the amount claimed is $177,000. There have been eighty-one cases of accidents on the highways during the past year that have been

carefully examined, and the evidence obtained. There have been prepared and rendered to the City thirty-three written opinions during the past year.

This short review of these most important matters which come before this department is sufficient to enable the City Council to form some idea of its value on account of the knowledge which it has acquired in the investigation of these subjects which are so nearly related to the finances of the City.

Gentlemen of the City Council: –

From this time until our terms of office end, let us act wisely in the discharge of our various duties, guided always by the high resolve to give our very best to the service of Cambridge.

ANNUAL REPORTS

REPORT OF THE CAMBRIDGE WATER BOARD

CAMBRIDGE, December 15, 1904.

To the Honorable, the City Council of the City of Cambridge:—

The fortieth annual report of the Cambridge Water Board for the year ending November 30, 1904, is herewith submitted for your consideration.

The different reservoirs, and other works under the charge of the Board are substantially in the same condition that they were a year ago, except that a striking improvement has been made in the grounds about Fresh Pond, which will be considered separately in another part of this report.

The main supply-pipe is still inadequate to supply the needs of the people, and, in spite of all the efforts of the Board, nothing has been done toward the construction of a new pipe line, the City Council having failed to make the necessary appropriation.

The condition of the water supplied by Hobbs Brook and Stony Brook Reservoirs is still of good quality and the supply abundant in the reservoirs, but scanty at Fresh Pond, owing to the insufficiency of the present main pipe.

All suits for land damages have been settled except one, but there should be some further takings of land made at an early date, to protect further the water of Hobbs Brook, at certain places which may possibly be a source of danger. The probable expense of such takings will however not be great, and, if they are made during the ensuing year, there will be no danger to the purity of the water.

FINANCIAL STATEMENT IN BRIEF.

The total cost of the Water Works to November 30, 1903, was .	$5,750,655 15
There was expended during the year on Construction Account .	21,851 98
So that the total cost to November 30, 1904, was	$5,772,507 13

WATER BOND ACCOUNT.

The whole amount of bonds outstanding is	$3,350,600 00
Deducting from this sum the present value of the Water Debt Sinking Fund, exclusive of the note of the City for $200,000 .	1,218,686 74
Leaves as the net Water Debt	$2,131,913 26
For further details of the financial condition of the department, reference may be made to the statement of the Registrar appended to this report. From that statement it appears that the excess of expenditures over receipts during the past year is the sum of	$3,882 88
The net Water Debt November 30, 1903, was	$2,287,778 54
" " " " " " 1904, "	2,131,913 26
Reduction of net debt during the year	$155,865 28

The deficit of $3,882.88 was caused by payment into the Sinking Fund of a larger amount than the ordinances require. Strict compliance with the ordinances would have given us a surplus of nearly $5,000, instead of a deficit of $3,882.88, as stated above.

The reduction of the net debt during the year exceeds the reduction during the year 1903 by the sum of $679.80, although there was no expenditure during that year for the improvement of Fresh Pond, while in the year 1904 there has been expended for that purpose the sum of $12,500, so that the net increase in reduction of the debt may be properly called $13,179.80.

WATER BASINS.

Hobbs Brook and Stony Brook Reservoirs are both nearly full, in spite of the dryness of the season, which has caused a scarcity of water in many cities and towns in New England. Fresh Pond, owing to the purchase of water during the year from the Metropolitan Water and Sewerage Board, (which is now in use), is rapidly rising, and will probably soon be filled, or nearly filled, so that no scarcity of water need be apprehended during the Winter.

In April last it became apparent that something must be done to avert a water famine, and, no other means of increasing the supply being possible, the Board requested the Metropolitan Board to provide the City with a temporary supply of water. This request was granted, and between April 27th and June 4th, 330,000,000 gallons of water were purchased at a cost of $15,218. In November, last, the Pond being nearly five feet below high water mark, the Board recommended that a further supply be purchased, and the Metropolitan Board again consented to come to the relief of the City, so that at this date, the water-takers are entirely

supplied with water delivered directly into the street mains through a connection made on Cambridge Common. No water meanwhile is pumped from Fresh Pond, and none delivered from Payson Park, so that all the water which can be obtained through the Stony Brook main-pipe is allowed to accumulate in Fresh Pond.

The cost of the present supply of purchased water will be about $15,000, making a total expenditure during the present calendar year for Metropolitan water of over $30,000. In this connection, it seems proper to remind the City Council, that there is no reason to expect that the City can obtain water indefinitely from this source. In the first place, there is no certainty that the Metropolitan Water Board will hereafter have any surplus water to sell. In the second place, it is doubtful, to say the least, whether the Metropolitan Board can under the provisions of law contained in Chapter 488 of the Acts of the Legislature of the year 1895, and the amendments thereto, continue to sell water to any city or town within ten miles of the State House, but not in the Metropolitan District, merely for the purpose of making up a deficit in supply for such city or town without some new legislative act. The Metropolitan Board have generously come to the relief of the City twice, but it has been courteously intimated that without such new legislation, which may or may not be obtained, they cannot consent to sell water to the City of Cambridge again.

NEW PIPE LINE.

The present pipe line from Stony Brook to Fresh Pond was laid in 1884. While the size of the proposed pipe was under consideration by the Water Board of that year, President Kingsley, Hon. James M. W. Hall, afterwards his successor in the office of President, and Mr. John F. O'Brien, then also a member of the Board, all earnestly advocated a larger pipe, that is, a pipe thirty-six inches in diameter. The other members, acting under advice of the then City Engineer, Mr. Barbour, and the Consulting Engineer, considered a thirty-inch pipe sufficient. A compromise was finally made, and the Board agreed upon a pipe thirty-six inches in diameter for about a mile, beginning at Stony Brook Dam, and thence for seven miles upon a pipe thirty inches in diameter, and it was so constructed.

In the report of the Board for 1896 it was stated that by the year 1900 a new pipe would have to be laid, and such new pipe was advocated by the Board of the years 1898, 1899, 1900, 1902 and 1903.

The City Council of the year 1903 voted that the Mayor petition the Legislature for permission to issue bonds to the amount of $500,000 for the purpose of constructing a new pipe line, and such petition was drawn up, signed by the Mayor, and presented to the Legislature early in the session of 1904. After due hearing before the Legislative Committee, to whom the petition was referred, the committee reported recommending that the petition be granted, and an Act authorizing the issue of bonds was passed February 16, 1904. See Chapter 90 of the Acts of the year 1904.

Very soon thereafter the Water Board requested the City Council to make an appropriation of $500,000 for the purpose of beginning the construction of a new pipe line in three sections, one section from Hobbs Brook Reservoir to a point on the present pipe line passing through Newton Street in Waltham, another from Irving Street in Watertown to Fresh Pond, and another section from Irving Street to meet the section first named. This request was denied. The Committee on Water Supply subsequently recommended an appropriation of $250,000 with which to construct the lower section from Irving Street to Fresh Pond; but although the entire Board of Aldermen voted in favor of the appropriation, with a majority of the Common Council concurring, the appropriation failed, because two-thirds of the Common Council did not concur with the Board of Aldermen, a two-thirds vote being necessary.

The lower section was to be constructed entirely of concrete, sixty-three inches in diameter, and, inasmuch as the summits above the hydraulic mean gradient, which greatly obstruct the flow of water in the present pipe, are all between Irving Street and Fresh Pond, this new section alone would have so increased the capacity of the pipe that it would have delivered water enough to meet all demands for at least four years to come.

The annual interest and sinking fund payments on the cost of this section would be $13,750. As it is, the City has paid, including the cost of the water now being supplied, over $30,000 for water from the Metropolitan Board, while it could have had water from our own sources at an expense of $13,750. It is plainly evident, that the new pipe line

ought to be constructed at once, as a matter of economy, even if the City could repeatedly purchase water, which as heretofore explained is at least very doubtful.

Moreover, on account of the delay in taking immediate action, there has been a loss in the enhanced cost of material. When the Board first advocated commencement of the work, iron was extremely low in price, and the upper section is necessarily to be constructed mainly of iron on account of the great pressure to which that section would be subjected. Since then, iron has advanced five dollars per ton. Portland cement, the main element in concrete, of which the other two sections are almost wholly to be constructed, has been very cheap, but will undoubtedly advance in price between now and next Spring. We earnestly recommend that the City Council consider as soon as possible the expediency of constructing at least one section of the line, and make an appropriation therefor, so that contracts for materials may be made and work may be begun early in the ensuing Spring.

FRESH POND.

The work at Kingsley Park, suspended last year for want of an appropriation, has been taken up again this year, and the result is a great improvement in that portion of the grounds about the Pond which most needed attention. The elevated ground on the southerly side of the Pond, formerly occupied by the old Fresh Pond Hotel, has been graded, the abrupt slopes to the water made more gradual, old and unsightly trees taken out, and the roadway which led from the bridge over the railway tracks diverted from its former location, so as to be much more safe and convenient for driving. The plateau on the hill has been laid out in walks, with planted spaces; look-offs have been constructed at points where the view is most beautiful, and the slopes planted with shrubbery. Most of the graded land has been covered with loam preparatory to plowing and seeding in the Spring.

STONY BROOK OVERFLOW.

The overflow at Stony Brook Dam for the year ending December 1, 1903, was . . .	6,437,500,000	gallons
For the year ending December 1, 1904, it was .	5,726,399,000	"
Decrease	711,101,000	gallons

The decrease is undoubtedly due to the smaller rain-fall this year, which is several inches less than the rain-fall of the year 1903, as appears by the following table.

The annual rain-fall for the past ten years at Fresh Pond is as follows: —

	Inches.
1895	47.12
1896	38.82
1897	42.53
1898	52.42
1899	37.28
1900	46.89
1901	46.20
1902	43.31
1903	44.23
1904	42.89
Average	44.17

The rain-fall for the year at Hobbs Brook was 39.95 inches; at Stony Brook, 41.18 inches.

The rain-fall for the year at Hobbs Brook was 39.95 inches, as compared with 47.42 inches in 1903, showing a loss of 7.47 inches. The rain-fall at Stony Brook was 41.18 inches, as compared with 45.97 inches in 1903, a loss of 4.79 inches.

The prediction of the Board, in the last annual report, that the year 1904 was likely to be a dry year has been fulfilled.

CONSUMPTION OF WATER.

The total consumption of water for the year ending December 1, 1904, was	3,210,982,145	gallons
For the year ending December 1, 1903	3,160,704,545	"
Excess of consumption this year	50,277,600	gallons
The excess of consumption for the year ending December 1, 1903, over the year ending December 1, 1902, was	230,150,815	"
In 1894 the total consumption was	2,127,878,627	gallons
The consumption of the year 1904 being	3,210,982,145	"
and that of 1894	2,127,878,627	"
In ten years the consumption has increased or about one-half.	1,083,103,518	gallons

The reduction in excess of consumption this year is undoubtedly due in part to the introduction of additional meters.

ELECTROLYSIS.

The action of the electric current (liberated in the ground by the operation of the Boston Elevated Railway Co.), upon the main pipes, has caused rapid deterioration, resulting in many instances in complete perforation of the pipe, thereby causing leaks which appeared at the surface of the ground.

The forty-inch steel main in Huron Avenue, has been exposed for a long distance, and repairs have been made as well as possible, the holes being filled with plugs, secured by straps; and while the pipe was exposed photographs were taken and copies may be found with this report. For a more detailed statement the Board refer to the report of the Electrical Engineer employed to consult with and advise the Board, also to the report of the Superintendent, both printed herewith. Some method of relief must be devised, if the iron and steel pipes in the ground are to be saved from destruction. The proposed new main pipe from Fresh Pond to Irving Street, and the next section to Newton Street, Waltham, inasmuch as they are to be made principally of concrete, will not be subject to electrolysis. This is another argument in favor of the use of concrete, which is cheaper than iron, and will also be free from rust and tuberculation.

METERS.

The Board have caused to be set this year 324 meters, all upon application of water-takers who prefer to pay for water by measure. There are now in all over 2,600 meters. Several years ago, the Board attempted to install a complete meter system, and a considerable appropriation was made by the City Council for that purpose. Many meters were accordingly purchased and set. Subsequently, the City Council reversed its policy, and only appropriated money for the setting of meters in cases where the water-takers voluntarily applied for them. There is much dissatisfaction among water-takers whose supplies have been metered without their consent, because they are obliged to pay for the water they use, while in other portions of the City, where supplies are not metered, consumers can use or waste water as much as they desire. On the other hand, other water-takers, not having meters, are dissatisfied because they are obliged to pay for water at schedule rates, and these water-takers continually petition the Board to have meters attached to their

supply pipes. Often there are pending many applications for meters, which the Board is unable to grant for lack of sufficient appropriation. Such a state of things is far from satisfactory, and the Board recommend the City Council to give the matter careful consideration, and advise that the meter system be gradually extended, by granting meters to all that apply for them, even if the City Council should not be disposed to require that all consumers shall be supplied through meters. The Board believe that even with the small number of meters already set, a considerable reduction has taken place in the amount of water wasted, and that it would at all events be well for the City Council to consider once more the policy of gradually applying the meter system to all supplies.

Respectfully submitted,

WILLIAM B. DURANT,
GEORGE H. HOWARD,
EDMUND H. STEVENS,
ANDREW J. RADY,
JOHN F. O'BRIEN,

Cambridge Water Board.

REPORT OF ELECTRICAL ENGINEER

CAMBRIDGE, December 17, 1904.

To the Cambridge Water Board:—

GENTLEMEN:—In reply to your request for a statement of the electrolytic action on the Cambridge water pipes, I would respectfully submit the following report:—

There is a large amount of damage being done to the pipes of your system from current of the Boston Elevated Railway Company. That you may the better understand the difficulty a description of the distribution of power is necessary.

The Elevated Railway Company has a power house on Boylston Street, near Harvard Square, from which several thousand horse power of electrical energy is distributed. There are here located large engines and dynamos capable of developing current at a pressure of five hundred volts. This current is sent out to all parts of Cambridge and surrounding territory by underground wires which are connected to numerous overhead wires upon leaving the conduits. These wires called feeders are in turn connected to the trolley wires in and about Cambridge. The current flows through the motors of the cars, where its potential energy is largely absorbed. The current flows to the rails and then back over the rails and other ground connections to the power house. The rails are connected together by fish plates, which carry some of the current. There are also copper wires riveted to the rails around the fish plates, and in some cases the rails are joined together by a mass of cast iron poured around them which unites with the rails and makes an easy path for the flow of current. There are also large copper wires connected to the rails in many parts of the system which are carried on poles and through the conduits to the dynamos.

Could the resistance to the flow of current be brought to a low enough figure through the return rail and wire systems, only a small fraction of what is now carried on the water pipes would find its way to this remote

path. The Boston Elevated Railway Company has *not* put in return wires as rapidly as they have increased the current flowing out to propel their cars.

The result of this negligence is increased action on the City pipes. It is a well recognized fact that all the current sent out must return to the dynamo; and it is also a well known electrical law that the path which this current will take will be a divided one, a part going by each path available, the relative amounts beiug inversely proportional to the resistance offered by the paths. The larger part will return by the rails and return wires and the lead covering of the cables, a lesser amount by the ground and pipes.

In those parts of the City where the current goes into the pipe there will be no action which injures them; but all current that flows from distant points back towards the power house must leave the pipes and go to the rails again. I find from a survey that for over a mile in all directions from the power house this condition of affairs, *i. e.*, a flow of electricity from pipes to rail, and in this entire section there is electrolytic action night and day in proportion to the number of cars running.

In Putnam Square where water pipes pass under the conduits some current leaves the pipes and takes to the lead sheaths of the cable.

I have known of sections of pipes or connections losing sixty per cent. of their weight from this cause in six months.

Recently the six-inch main on Boylston Street has developed holes from this cause.

The most serious trouble, however, this year, has been on Huron Avenue, near Sparks Street, where numerous holes described in your Superintendent's report have developed in the forty-inch steel main. This difficulty was discovered early in the Summer and I was enabled to conduct a series of experiments and make some careful measurements to which I referred in a communication sent to you in June, just before I sailed for Europe. This work was, however, nearly completed and I have had the benefit of the further work of Mr. Corning, an electrical engineer, connected with the Boston Elevated Railway Company, and of Mr. W. E. Foss of the Metropolitan Water Board, who concluded the experiments in July.

Before I went Mr. Corning and I agreed that a connection could be

made between the main and the rail at Huron Avenue and Sparks Street with benefit. During the Summer this connection was established and the action largely reduced at this point. You should however understand that such a connection is not an unmixed blessing, for when rail and pipe are connected you have reduced the resistance and increased the amount of current flowing on the pipes, and in the event of the joints in the pipes offering poor electrical connection there is likely to be action on the pipes where the current leaves to flow through the ground to reach the other side of the joint.

On the forty-inch steel main I found the riveted joints of low resistance, even the joints riveted in the trench, called "field joints" were of very low resistance, equalling less than a foot of plain pipe. This main was not connected with the other pipes at many points and could be more easily handled than any other part of your system. It is a vital artery however and should be preserved even at the sacrifice of connecting branches. It therefore seemed wise to place an insulating joint in each of these branches where it join the forty-inch main. One was placed on the branch at Cushing Street and one at Reservoir Street and an immediate fall in the flow of current was noticed. We shall expect more action on the ends of each of these branches near Huron Avenue than we have had heretofore, but the damage to the City will be less than would be the case had we not installed these joints.

In my opinion your Board has done all that it can do to protect the City. I am however of the opinion that the Boston Elevated Railway Company has been negligent in that it has not supplied sufficient return wires for its system. More of such wires would lessen the action on the pipes and a double trolley wire would completely eliminate the trouble.

Respectfully yours,

(Signed) CHAS. H. MORSE,

328 Harvard Street, Cambridge, Mass.

Electrolytic Investigation on 40-in. Steel Pipe

HURON AVENUE, CAMBRIDGE

May and June, 1904

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Electrolytic Investigation on 40-inch Steel Pipe, Huron Ave., Cambridge.

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Table No. 5 showed that with a bond between pipe and rail of proper size and length at Appleton Street action at this point would be greatly reduced.

Table No. 6 tends to show that all the current on the 40-inch main at Appleton Street does not come from the branches at Reservoir Street, Park Avenue, and Cushing Street, but is from other sources.

Tables No. 7 and No. 8 tend to show that with bond at Garden Street, at Washington Elm, action would not be stopped at Appleton Street.

Table No. 15 shows that a bond at the Washington Elm brought a large flow of current off of the Massachusetts Avenue lines, with no assurance of a corresponding decrease at the power house. That under normal condition, *i. e.*, without bond, that a large current was flowing on to the Massachusetts Avenue pipes which would have to leave them again at the power house and cause trouble there. It also shows that a bond at Appleton Street would probably relieve both of these conditions.

TABLE 1.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

May 26, 1904.

Measurement of resistance of 40-inch Steel Pipe at Cambridge Pipe Yard.

Ammeter No. 407.

M. V. No. 14449.

Length of pipe, 5 feet, 7 inches.

1

Amperes.	Milli-Volts.	Resistance per ft.
67.3	.43	
65.0	.44	
67.5	.46	
68.5	.47	
Ave. 67.1	.45	.00000120

2

65.0	.42	
65.0	.41	
67.8	.43	
65.5	.41	
Ave. 65.8	.42	.00000114

3

66.0	.43	
68.3	.46	
60.0	.40	
Ave. 64.8	.43	00000119

4

66.0	.42	
67.0	.44	
60.5	.41	
64.0	.43	
69.0	.46	
Ave. 65.3	.43	.00000118

Average Resistance per ft.=.000001234
Amperes per M. V. per ft.=808

1

Amperes.	Milli-Volts.	Resistance per ft.
128.5	.98	
123.0	.94	
124.5	.93	
125.0	.93	
125.3	.95	.00000135

2

126.0	.88	
124.0	.88	
128.5	.91	
125.0	.88	
125.9	.89	.00000126

3

120.0	.88	
122.0	.88	
131.0	.94	
129.0	.93	
125.5	.91	.00000129

4

131.0	.93	
133.0	.94	
138.0	.97	
129.5	.91	
132.9	.94	.00000126

Measurement taken over 5 ft., 7 in. of 40-in. pipe including a joint.

66.5	.50	
65.5	.50	
67.0	.51	
122.0	.92	
80.3	.61	.00000136

Ratio between resistance of pipe with joints to pipe without joints=1.10.

Table 2.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

May 27, 1904.

Comparison of joints in pipe at excavation east of Appleton Street. Readings taken over 7.05 feet of pipe including a joint.

Simultaneous readings over alternate joints.

First section 6½ feet east of a line opposite pole $\frac{55}{22}$.

M. V. M. No. 6789 and M. V. M. No. 14449.

Readings in divisions. 1 division =.2 M. V.

Joint 3	Joint 1	
1.3	1.3	
1.3	1.4	
Joint 4	**Joint 2**	
1.1	1.5	*
.9	1.1	*
.9	1.1	*
1.0	1.3	
Joint 7	**Joint 5**	
1.5	1.95	Bad Contact.
1.6	1.00	Bad Contact.
1.7	1.80	
1.1	1.10	
Joint 8	**Joint 6**	
1.3	1.75	
1.2	1.70	
1.9	2.20	
1.6	2.10	
Joint 11	**Joint 9**	
1.6	2.0	Bad Contact.
1.6	1.9	Bad Contact.
2.0	2.0	
1.6	1.6	
2.1	2.0	
Joint 12	**Joint 10**	
2.10	2.25	
2.10	2.30	
2.20	2.40	
Joint 15	**Joint 13**	
1.30	1.80	
1.60	1.90	
1.50	1.70	
2.00	2.00	
Transposed Meters.		
2.05	2.00	
1.85	1.40	
1.30	1.10	

*These readings supposed not good on account of bad contact.

Joint 16	Joint 14	
Transposed Meters.		
1.80	1.60	
1.15	1.00	
1.10	1.10	
1.50	1.50	
Joint 17	**Joint 15**	
1.20	1.00	Doubtful.
1.75	1.40	Doubtful.
1.20	1.20	
1.10	1.10	
Joint 20	**Joint 18**	Field joint.
1.20	1.10	
1.00	.90	
.90	.70	
1.50	1.30	
Joint 21	**Joint 19**	
1.20	1.30	
2.20	2.20	
2.20	2.20	
Joint 24	**Joint 22**	
2.0	1.90	
1.3	1.50	
1.2	1.10	
1.8	1.40	

Comparison of two sections of 7 joints each.
Meters with long leads checked.

Includes 2 field joints.	6.0	7.0	Includes 1 field joint.
	9.5	10.0	
	5.4	6.0	
	8.6	9.0	

Moved along one pipe length.

7.0	7.0
12.4	12.0
8.8	8.5
9.4	10.0

East of Appleton St.	West of Appleton St.
11.3	12.0
13.0	13.0
14.0	14.0
8.8	9.0
12.0	12.0

TABLE 3.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

May 28, 1904.

Drop on 40-inch Pipe taken over 46½ feet at Appleton Street.
Excavation and 50 feet at Railroad Bridge.
M. V. M. No. 6789 at Appleton Street.
M. V. M. No. 14449 at Railroad Bridge.

11.15 to 11.25 A. M.

AT RAILROAD BRIDGE.

Bad Contact.		Bad Contact.	Bad Contact.	
0 div.	.02	0	0	2.0
0	.02	0	0	2.5
0	.03	0	0	2.0
0	.02	0	0	2.0
.2	.03	0	0	2.8
0	.02	0	0	2.8
0	.02	0	0	2.0
0	.02	0	0	2.5
0	.05	1.0		2.3
0	0	2.8		2.6
0	0	1.8		2.8
0	0	2.0		2.3
				2.5

Ave. 2.28
= .46 M. V.
8.1 Amps.

AT APPLETON STREET.

8.0 div.	8.4	5.4	4.0	5.0	5.0
6.0	4.8	8.0	2.8	8.8	8.3
7.0	10.0	3.0	8.0	8.5	5.0
3.8	6.0	5.0	3.4	2.8	4.8
6.8	5.1	2.8	5.8	4.8	8.8
7.8	3.0	3.8	2.0	5.3	5.5
9.2	3.5	5.0	4.8	6.0	5.1
7.0	3.0	4.0	5.0	6.2	5.0
6.2	8.4	4.0	6.0	7.0	8.8
4.2	6.7	3.0	6.0	5.0	
5.2	4.3	2.5	6.0	2.8	
5.7	3.2	4.7	5.2	6.4	

Ave. 5.48
= 1.10 M. V.
16.24 Amps.

COMPARISON OF JOINTS IN PIPE AT EXCAVATION WEST OF APPLETON STREET.

10.25 A.M.

Field joint opposite pole 55-19.	Second joint east of field joint.
.9	.9
.8	1.0
.5	.6
1.0	1.0
1.2	1.3
1.0	1.1
.9	.9
1.3	1.4
1.1	1.3

COMPARISON OF PIPE WITH JOINT AND WITHOUT JOINT AT EXCAVATION WEST OF APPLETON STREET.

With joint.	Without joint.
1.35	1.10
1.40	1.10
1.10	.90
1.30	1.00
1.10	.95
1.40	1.10
Ave. 1.28	Ave. 1.03
0.26 M. V.	0.21 M. V.

Ratio 1.24

Table 4.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

May 31, 1904.

Readings of drop taken over 92.8 feet of pipe in excavation east of Appleton Street. Arrangements for connections between track and pipe at the following locations: 120 feet east of Appleton Street, called "East Bond;" 10 feet west of Appleton Street, called "Middle Bond;" and a few feet west of Fayerweather Street, called "West Bond."

M. V. M. No. 14449. Current flowing east = + readings.

Normal Conditions.		East Bond Connected.		West Bond Connected.		Middle Bond Connected.	East & Middle Bonds Connected.		East & West Bonds Connected.		East, Midde & West Bonds Connected.		Middle & West Bonds Connected.
2.47 P.M.	3.22 P.M.	2.49 P.M.	4.00 P.M.	3.20 P.M.	3.24 P.M.	2.53 P.M.	2.51 P.M.	3.40 P.M.	3.26 P.M.	3.57 P.M.	3.37 P.M.	3.55 P.M.	3.43 P.M.
M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.
2.20	1.80	4.00	6.00	1.80	2.00	—1.20	3.00	5.20	6.00	5.00	6.80	9.20	—1.80
2.20	1.80	4.00	6.00	1.80	1.60	—1.60	2.20	4.40	7.20	6.20	8.40	5.10	—2.40
2.20	1.60	3.95	5.40	2.00	.0	—1.60	3.00	4.00	6.60	10.00	6.20	6.00	—1.20
3.00	.80	4.20	5.60	2.40	3.00	—1.00	1.80	4.20	7.80	11.00	7.40	8.00	.40
2.30	1.60	4.40	4.20	.80	2.60	1.20	.60	4.20	6.60	11.00	7.60	10.00	—2.00
3.20	2.00	3.90	4.40	4.00	2.40	—1.30	1.80	4.80	5.00	9.00	6.40	8.00	—.60
2.60	2.00	3.40	5.20	5.00	2.00	—.60	3.00	3.30	5.00	6.00	6.20	6.40	—1.00
2.40	3.00	4.70	6.00	2.40	2.00	—1.30	2.80	2.80	7.80	7.20	6.50	7.00	—2.00
1.80	1.80	4.30	5.80	—.40	—.40	.0	2.60	3.00	9.00	4.60	7.00	6.20	—2.00
1.70	1.60	4.60	5.40	.20	—.80	—1.00	3.40	2.80	7.80	6.40	4.60	6.00	—1.20
2.00	2.20	4.40	5.60	1.40	2.00	—.40	3.80	4.00	6.80	8.80	6.20	5.80	.20
1.60	3.00	5.10	5.00	40	2.40	—1.00	3.80	4.40	8.80	6.40	9.60	5.60	.0
2.90	3 10	4.20	5.40	4.00	3.00	—2.40	4.60	4.40	6.60	8.40	6.80	4.20	—.20
2.40	2.60	3.80	4.80	1.20	2.60	—1.90	3.00	4.60	5.10	9.20	7.40	8.20	—2.00
2.40	3.00	4.40	4.60	.20	1.80	—1.80	2.10	4.00	3.80	9.40	6.00	10.40	.80
3.20	1.80	4.00	5.00	1.80	.80	—1.20	3.80	3.80	4.90	10.20	6.50	6.60	—2.00
4.00	2.70	4.40	5.20	1.80	1.10	—1.60	4.00	2.40	5.00	9.40	6.20	6.60	—1.60
3.80	2.40	4.20	4.20	.50	.70	—2.00	3.00	4.00	4.40	8.00	9.00	5.80	—1.20
2.30	2.00	4.60	4.40	2.20	3.30	2.00	4.20	4.60	5.40	9.20	7.00	7.00	—.80
2.40	2.60	4.80	6.00	.80	2.00	.80	1.40	4.00	6.00	7.20	7.40	7.20	—.80
2.60	2.60	4.60	6.20	3.60	2.80	—.60	4.40	4.40	6.70	6.00	7.20	5.00	.0
2.80	3.60	4.20	5.80	1.20	2.60	.0	3.80	4.00	4.60	11.00	5.80	6.00	.80
3.10	3.20	4.60	...	1.60	....	.0	3.00	....	7.60	....	8.00	....	.....
1.80	....	5.10	....	1.00	....	—1.00	3.20	....	8.00	....	....	....	.....
....	....	....	....	2.00	....	....	....	....	...	....	...	....	.....
Ave. 2.54	2.27	4.33	5.27	1.75	1.79	—.81	3.01	3.97	6.35	8.16	7.01	6.83	—9.4
2.41		4.80		1.77			3.49		7.26		6.92		
Approx. Amps. 21.0		41.7		15.4		—7.0	30.2		63.2		60.2		—8.2
1.17		1.17		1.17		1.17	1.17		1.17		1.17		1.17
17.9 Amps.		35.6 Amps.		13.1 Amps.		—6.0 Aps	25.8 Amps.		54.0 Amps.		51.5 Amps.		—7.0 Aps

Table 5.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

June 1, 1904.

Potential readings between pipe and rail.

Normal conditions and pipe bonded to track at a point 120 feet east of Appleton Street.

Voltmeter No. 3921. Pipe +

Normal Conditions.						Rail Bonded to Pipe.					
No. 1. East end of excavation near Appleton St. 3 03 P.M.		**No. 2.** West end of excavation near Appleton St. 3.17 P.M.		**No. 3.** Excavation near Fayerweather Street. 4.45 P.M.		**No. 1.** East end of excavation near Appleton St. 3.59 P.M.		**No. 2.** West end of excavation near Appleton St. 3.44 P.M.		**No. 3.** Excavation near Fayerweather Street. 4.20 P.M.	
.90	1.05	.90	.70	.70		.02	.02	.0	.01	—.45	—.30
.30	.95	1.20	.45	.75		.02	.02	—.02	.01	—.35	—.25
.40	1.10	.90	.80	1.00		.02	.01	.01	.03	—.30	—.10
.50	.95	.60	1.15	.75		.03	.02	—.05	.02	—.35	—.15
—.20	.90	.70	.75	1.00		.02	.02	—.03	—.04	—.40	—.40
—.10	.55	.15	.30	1.10		.01	.02	—.02	—.04	—.50	—.40
.50	.80	1.00	.50	1.00		.03	.03	—.02	.0	—.50	—.45
.60	.60	1.05	.55	.70		.03	.04	.02	.03	—.55	— 40
.10	.75	.95	.55	.70		.03	.02	.02	.03	—.40	—.35
.10	.90	.70	1.00	.75		.02	.03	.02	.03	—.45	—.30
.50	.65	.40	.50	.80		.02	.02	—.02	—.02	—.40	—.45
.75	.50	.90	1.05	.60		.02	.02	—.01	—.02	—.60	—.40
.25	.40	1.15	1.25	.90		.03	.03	.0	—.03	—.50	—.40
.50	.10	.85	1.05	1.00		.03	.03	—.02	—.01	—.30	—.40
.25	—.30	.65	.70	1.05		.03	.03	—.03	.03	—.20	—.45
.35	.0	.20	.65	.60		.03	.02	—.03	.02	—.40	—.35
.25	.0	.05	.70	1.05		.02	.03	.02	.0	—.30	—.35
.10	.10	.30	.70	1.10		.01	.02	.03	—.01	—.30	—.40
.30	.50	.70	.70	1.10		.01	.03	.03	.02	—.35	—.45
.50	.25	.70	.40	.90		.01	.04	—.02	.02	—.25	—.40
.75	.20	.80	.70	.60		.03	.04	.0	.02	—.20	—.30
.10	.50	.40	1.00	.60		.03	.04	.02	.02	—.25	—.35
.55	.65	.85	.90	.50		.03	.04	.01	.03	—.30	—.40
.80	.60	.75	.80	.70		.03	.03	.02	.01	—.25	—.35
1.00	.55	.55	.70	.95		.03	.04	.02	—.01	—.20	—.15
.95	.60	.50	.55	1.00		.02	.04	.02	.0	—.25	—.25
.90	.25	.45	.45			.02	.05	—.01	.03	—.35	—.40
.60	.40	.45	.60			.02	.05	—.01	.01	—.35	—.30
.10	.75	.65	.75			.03	.04	—.01	.0	—.30	—.35
.35	.75	1.15				.03	.02	—.01	.0	—.35	
Ave.=.48 Volts		Ave.=.70 Volts.		Ave.=.83Volts.		Ave.=.027Volts.		Ave.=.002Volts.		Ave =—.35Vts.	

Table 6.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

Drop on branch pipes at Reservoir Street, Park Avenue and Cushing Street.

In each case current flows towards 40-inch steel main.

Drop over 92.8 feet of 40-inch steel main near Appleton St. M. V. M. No. 14449. June 1, 1904.		Reservoir St. Drop over 9.8 feet of 20-inch cast iron pipe. M. V. M. No. 6789. June 1, 1904.		Park Ave. Drop over 5 feet, 9 inches of 6-inch cast iron pipe. M. V. M. No. 14449. June 3, 1904.		Cushing St. Drop over 5 feet, 10 inches of 12-inch cast iron pipe. M. V. M. No. 6789. June 3, 1904.	
Normal Condition	With bond at Appleton Street.	Normal Condition.	With bond at Appleton Street.	Normal Condition.	With bond at Appleton Street.	Normal Condition.	With bond at Appleton Street.
3.0	5.6	.6	.8	1.50 1.60	2.40 2.20	.20 .30	.10 .45
3.4	5.8	.9	.7	1.40 1 95	2. 0 2.60	.30 .40	.10 .45
2.6	5.2	.7	.8	1.55 1 50	2.60 2.95	.35 .40	.20 .40
2.2	5.0	.6	1.0	1.70 1.20	2.60 2.80	.30 .35	.40 .35
2.6	5.2	.8	1.0	1.70 1.10	2.50 2.65	.30 .40	.45 .35
2.6	6.0	.9	.9	1.40 1.90	2.40 2.70	.35 .40	.25 .30
2.5	5.8	.7	.9	1.40 1.80	2.50 2.45	.30 .35	.10 .25
4.0	6.2	.8	.8	1.80 1.80	3.00 2.30	.28 .35	.30 .40
3.2	4.8	.7	.8	1.85 1.85	2.80 2 00	.25 .35	.40 .35
2.8	5.2	.6	.7	1.60 1.80	2.50 2.10	.20 .30	.40 .20
2.1	5.8	.5	.9	1.60 1 25	2.20 2.50	.25 .35	.45 .15
3.0	6.0	.6	1.0	1.10 1.40	2.50 2.40	.25 .35	.40 .30
3.6	4.8	.7	.8	1.25 1 95	3.00 2.35	.22 .40	.40 .35
4.0	5.0	.6	.8	1.60 2.00	3.00 1.90	.30 .45	.25 .40
3 2	5.0	.7	.7	1.40 1.85	3.00 1.80	.30 .45	.20 .35
3.4	4.2	.6	.8	1.35 1.95	2.60 2.15	.30 .40	.25 .40
2.8	4.6	.5	.6	1.50 1.70	2.70 2.20	.25 .40	.10 .35
3.0	4.6	.7	.8	1.60 2.00	2.05 2.20	.30 .40	.40 .30
3.6	4.8	.7	.8	1.10 1.90	1.95 2.30	.20 .40	.40 .25
3.6	4.2	.8	.9	1.10 2.10	2.00 2 45	.20 .40	.40 .35
2.8	4.8	1.0	.9	1.40 1.95	2.10 1.85	.20 .30	.40 .30
2.2	5.2	.8	.8	1.70 2.10	2.40 1.80	.15 .25	.45 .25
2.0	5.6	.7	.7	2.00 1.90	2.50 2.40	.25 .40	.50 .35
3.4	5.8	.7	.6	1.55 2.00	2.30 1.70	.25 .40	.15 .25
	6.6	.8	.8	1.80 2.00	2.30 1.80	.25 .30	.50 .25
Ave.=2.98	5.8	.6	.7	2.20 2.30	2.30 2.30	.15 .35	.40 .30
	5.4			1.90 1.60	2.90 1.90	.20 .35	.40 .30
22.1Amps.		Ave.= .704	Ave.=.81	1.80 1 85	2.80 2.10	.25 .35	.45 .30
	Ave.=5.30	11.3	13.0	1.85 2.00	2.85 2.40	.20 .40	.45 .40
	39.2Amps.	Amps.	Amps	1.40 1.60	2.40	.20 .45	.50 .25
				Ave.=1.683	Ave.=2.40	Ave.=.311	Ave.=.335
				7.7 Amps.	11.0 Amps.	3.6 Amps.	3.85 Amps.

Table 7.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

June 6, 1904.

Readings taken from 2 to 2.05 P. M. of Potential Differences between Pipe and Rail at Garden, Appleton and Fayerweather Streets and Railroad Bridge.

NORMAL CONDITIONS.

Garden Street at Washington Elm.	Huron Avenue at Appleton Street.	Huron Avenue at Fayerweather Street.	Huron Avenue at Railroad Bridge.
Pipe + V. M. No. 8072.	Pipe + V. M. No. 9531.	Pipe + V. M. No. 9725.	Pipe — V. M. No. 3921.
2.00 Volts.	1.03 Volts.	.50 Volts.	.40 Volts.
1.80	.87	.30	.15
2.05	.65	.35	.00
2.15	.78	.55	.50
2.30	.85	.55	.25
2.40	.56	.50	—.20
2.25	.76	.65	.20
2.25	.73	.55	.55
2.05	.93	.10	.45
2.15	.65	.15	.95
2.40	.53	—.10	.75
2.30	.28	—.10	—.30
2.35	.23	.70	.40
2.50	1.13	.45	.70
2.70	.82	.20	.15
2.40	.60	—.15	.00
2.20	.28	.00	.65
1.90	.28	.25	.70
2.00	.53	.20	.25
2.50	.44	.25	—.30
2.70	.46	.90	.30
2.25	1.13	—.15	45
2.50	.56	.25	.55
2.30	.59	.30	.60
2.25	.10	.45	—.05
2.70	.37	.55	.00
2.30	.48	.85	—.20
2.10	.77	—.30	.60
2.00	.27	.15	—.40
1.95	.36	.95	.25
2.00			
2.10	Ave. .60	.33	.28
2.35			
2.25			
2.30			
1.90			
1.85			
Ave. 2.23			

Table 8.

ELECTROLYTIC INVESTIGATION OF 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

June 6, 1904.

Readings taken from 2.10 to 2.15 P. M. of Potential Differences between Pipe and Rail at Garden, Appleton and Fayerweather Streets and Railroad Bridge.

Track bonded to Pipe at Washington Elm.

Garden Street at Washington Elm.	Huron Avenue at Appleton Street.	Huron Avenue at Fayerweather Street.	Huron Avenue at Railroad Bridge.
Pipe + V. M. No. 8072.	Pipe — V. M. No. 9531.	Pipe — V. M. No. 9725.	Pipe — V. M. No. 3921.
.11 Volts.	.75 Volts.	1.30 Volts.	1.95 Volts.
.11	.55	1.15	1.45
.12	.60	.80	1.10
.12	.50	.65	.95
.13	.45	.60	.90
.12	.50	.90	1.25
.10	.45	1.40	1.75
.12	.50	.65	1.60
.12	.98	.80	1.00
.14	.95	.90	1.10
.13	.50	1.15	1.45
.13	.40	1.30	1.50
.12	.70	.70	1.05
.13	.78	.45	.80
.11	.25	1.05	.95
.11	.30	.60	1.30
.13	.78	.95	1 15
.14	.25	.85	1.00
.13	.15	.70	1.00
.14	.75	.50	1.20
.11	.95	.95	.75
.12	.45	.80	.75
.13	.65	.95	.70
.12	.50	.75	1.05
.13	.68	.15	1.35
.14	.48	.50	.75
.14	.25	1.10	.80
.12	.25	.75	1.45
.12	.30	1.30	1.51
.13	.65	1.20	.90
Ave. .12*	.54	.86	1.15

* NOTE.—Low readings supposed to be caused by poor contact.

Table 9.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

June 6, 1904.

Readings taken from 2.20 to 2.25 P. M. of Potential Differences between Pipe and Rail at Garden, Appleton and Fayerweather Streets and Railroad Bridge.

NORMAL CONDITIONS.

Garden Street at Washington Elm.	Huron Avenue at Appleton Street.	Huron Avenue at Fayerweather Street.	Huron Avenue at Railroad Bridge.
Pipe + V. M. No. 8072.	Pipe + V. M. No. 9531.	Pipe + V. M. No. 9725.	Pipe — V. M. No. 3921.
1.50 Volts.	.24 Volts.	—.10 Volts.	.20 Volts.
1.55	.40	.45	.60
1.70	.90	.70	.50
1.60	.73	.25	—.20
1.75	.55	.65	.40
1.85	.60	.75	.25
2.00	.30	.40	—.50
1.60	.50	.35	.00
1.60	.20	.15	.60
1.70	.25	—.25	.75
1.80	.70	.40	.30
1.45	.60	.70	—.10
1.50	.95	.20	.00
1.70	.80	.20	.45
2.00	.55	—.15	.75
1.80	.20	—.30	.25
2.00	.50	—.20	.65
1.95	—.00	.00	.80
1.95	.26	.20	.90
1.90	.06	.35	.50
2.00	.45	.15	.50
2.20	.80	—.05	.50
2.00	.40	.00	.65
1.90	.43	.15	.70
1.70	.48	—.20	.50
2.00	.41	.10	.95
1.25	.29	.20	.35
2.30	.23	.30	.45
2.25	.36	—.20	.20
1.80	.58	.30	.65
Ave. 1.81	.46	.18	.42

Table 10.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

June 6, 1904.

Readings taken from 2.30 to 2.35 P. M. of Potential Differences between Pipe and Rail at Garden, Appleton and Fayerweather Streets and Railroad Bridge.

Track bonded to Pipe at Washington Elm.

Garden Street at Washington Elm.	Huron Avenue at Appleton Street.	Huron Avenue at Fayerweather Street.	Huron Avenue at Railroad Bridge.
Pipe + V. M. No. 8072.	Pipe — V. M. No. 9531.	Pipe — V. M. No. 9725.	Pipe — V. M. No. 3921.
.50 Volts.	.50 Volts.	.60 Volts.	1.15 Volts.
.40	.48	.45	1.05
.45	.30	.65	1.15
.30	.28	.55	1.25
.35	.30	.80	1.50
.35	.35	.75	1.25
.50	.30	.65	1.45
.60	.32	.70	1.75
.55	.33	1.05	1.60
.40	.75	1.50	1.80
.55	.50	1.25	1.50
.45	.45	.95	1.60
.60	.70	.45	1.00
.55	.65	.30	1.05
.40	.15	.55	1.20
.60	.45	.70	.95
.40	.35	.80	1.25
.50	.25	.15	1.25
.55	.05	.90	1.50
.45	.55	1.00	.95
.55	.45	.85	.90
.45	.35	.65	.95
.40	.45	.85	.35
.45	—.00	—— Ave. .74	1.00
.40	.25	—.10	.60
.50	.50	.75	.50
.55	—.05	.15	.00
.50	.40	.75 ?	.15
.45	—.00	—.10	.35
.50	—.00	—.15	.05
——	——	—.40	——
Ave. .47	.35		1.04

Table 11.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

June 6, 1904.

Readings taken between 3.15 and 3.20 P. M. at Garden and Mason Streets, Appleton Street and Huron Avenue, Park Avenue and Huron Avenue, and Cushing Street and Huron Avenue under normal conditions.

Garden and Mason Streets. Drop taken over 180 feet of 40-inch steel pipe.

Appleton Street and Huron Avenue. Drop taken over 6 feet, 8 inches of 40-inch steel pipe.

Park Avenue and Huron Avenue. Drop taken over 5 feet, 10 inches of 6-inch cast iron pipe.

Cushing Street and Huron Avenue. Drop taken over 5 feet, 10 inches of 12-inch cast iron pipe.

Garden and Mason. Current flowing east. M. V. M. No. 679.	Appleton and Huron Current flowing east. M. V. M. No. 14449.	Park and Huron. Current flowing towards steel main. Inst. No. 4116.	Cushing and Huron. Current flowing towards steel main. M. V. M. No. 6789.
10.	.30	.45	.25
10.	.32	.40	.20
8.	.40	.25	.30
6.	.32	.65	.35
7.	.36	.65	.30
8.	.32	.45	.40
5.	.25	.35	.30
8.	.30	.25	.40
2.	.25	.50	.25
6.	.20	.40	.35
9.	.30	.40	.25
11.	.30	.45	.30
11.	.30	.40	.40
7.	.30	.45	.20
6.	.20	.40	.40
8.	.15	.35	.35
6.	.08	.30	.30
4.	.15	.25	.30
5.	.20	.25	.20
8.	.18	.30	.25
7.	.18	.30	.20
8.	.22	.40	.20
9.	.25	.40	.20
10.	.20	.35	.30
11.	.12	.20	.30
8.	.18	.25	.30
8.	.10	.20	.25
9.	.18	.30	.20
6.	.08	.05	.20
4.	.18	.25	.20
13.			
6.	Ave. =.229 M. V.	Ave. =.353	Ave. =.28 M. V.
9.		=.45 M. V.	
	27.7 Amp.		3.2 Amp.
Ave. =7.7		2.1 Amp.	
=3.9 M. V.			
		Poor contact probable.	
14.9 Amp.			

Table 12.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

June 6, 1904.

Readings taken between 3.25 and 3.30 P. M. at Garden and Mason Streets, Appleton Street and Huron Avenue, Park Avenue and Huron Avenue, and Cushing Street and Huron Avenue.

Garden and Sparks Streets. Drop taken over 180 feet of 40-inch steel pipe.

Appleton Street and Huron Avenue. Drop taken over 6 feet, 8 inches of 40-inch steel pipe.

Park Avenue and Huron Avenue. Drop taken over 5 feet, 10 inches of 6-inch cast iron pipe.

Cushing Street and Huron Avenue. Drop taken over 5 feet, 10 inches of 12-inch cast iron pipe.

Bond between pipe and rail at Garden and Mason Streets.

Garden and Mason. Current flowing east. M. V. M. No. 679.	Appleton and Huron. Current flowing east. M. V. M. No. 14449.	Park and Huron. Current flowing towards steel main. Inst. No. 4116.	Cushing and Huron. Current flowing towards steel main. M. V. M. No. 6789.
25.	.35	.45	.45
26.	.15	.30	.45
15.	.18	.40	.30
27.	.40	.55	.30
27.	.40	.45	.35
25.	.42	.70	.35
15.	.45	.65	.40
18.	.40	.60	.45
14.	.45	.50	.40
14.	.45	.60	.45
17.	.45	.45	.30
21.	.30	.45	.40
20.	.32	.55	.40
15.	.35	.80	.30
13.	.40	.55	.35
18.	.40	.55	.45
15.	.38	.65	.45
20.	.40	.45	.35
18.	.45	.50	.40
23.	.42	.45	.45
19.	.40	.65	.35
21.	.35	.50	.45
20.	.40	.40	.30
22.	.40	.35	.30
27.	.38	.40	.45
28.	.30	.40	.40
27.	.40	.30	.40
24.	.45	.25	.40
24.	.35	.20	.40
26.	.25	.25	.40
23.			
18.	Ave.=.372 M. V.	Ave.=.477	Ave.=.387 M. V.
25.			
29.	45.1 Amp.	.61 M. V.	4.5 Amp.
30.			
28.		2.8 Amp.	
25.			
20.		Low reading supposed to be caused by poor contact.	
21.			
Ave.=21.6 =10.8 M. V.			
41.4 Amp.			

Table 13.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

June 6, 1904.

Readings taken between 4.00 and 4.05 P. M. at Appleton Street, Reservoir Street, Park Avenue and Cushing Street on Huron Avenue.

Appleton Street. Drop taken over 6 feet, 7 inches of 40-inch steel pipe.

Reservoir Street. Drop taken over 9 feet, 8 inches of 20-inch cast iron pipe.

Park Avenue. Drop taken over 5 feet, 10 inches of 6-inch cast iron pipe.

Cushing Street. Drop taken over 5 feet, 10 inches of 12-inch cast iron pipe.

Normal conditions.

Appleton Street.	Reservoir Street.	Park Avenue.	Cushing Street.
Current flowing east	Current flowing towards steel main.	Current flowing towards steel main.	Current flowing towards steel main.
M. V. M. No. 14449.	M. V. M. No. 679.	Ins't No. 4116.	M. V. M. No. 6789.
.15	.4	1.01	.35
.15	.5	.85	.25
12	.5	1.20	.30
12	.4	1.45	.25
.15	.4	1.20	.35
.08	.4	.80	.30
.12	.4	1.20	.35
.10	.5	1.00	.30
.08	.5	.85	.25
.08	.5	.95	.30
.10	.3	1.25	.25
.15	.4	1.05	.30
.10	.3	.80	.30
.05	.3	.50	.35
.13	.3	.65	.25
.08	.4	1.15	.20
.03	.3	.75	.25
.00	.5	.50	.30
.08	.5	.85	.20
.09	.4	1.20	.20
.05	.4	.65	.20
.05	.5	.80	.20
.00	.3	.45	.35
.02	.2	.70	.25
.03	.4	.65	.25
.05	.3	.80	.25
.05	.4	.85	.25
.06	.4	1.05	.20
.08	.5	1.00	.25
.05	.5	1.20	.25
	.4		
Ave. = .08 M. V.	.5	Ave. = .91	Ave. = .27 M. V.
	.4		
9.8 Amp.	.3	= 1.17 M. V.	3.1 Amp.
	.4		
Poor contact probable.	.5	5.4 Amp.	
	.4		
	Ave. = .41 M. V.		
	6.6 Amp.		

Table 14.

ELECTROLYTIC INVESTIGATION ON 40–INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

June 6, 1904.

Readings taken between 4.10 and 4.15 P. M. at Appleton Street, Reservoir Street, Park Avenue and Cushing Street on Huron Avenue.

Appleton Street. Drop taken over 6 feet, 7 inches of 40-inch steel pipe.

Reservoir Street. Drop taken over 9 feet, 8 inches of 20-inch cast iron pipe.

Park Avenue. Drop taken over 5 feet, 10 inches of 6-inch cast iron pipe.

Cushing Street. Drop taken over 5 feet, 10 inches of 12-inch cast iron pipe.

Pipe bonded to track at Appleton Street.

Appleton Street. Current flowing east. M. V. M. No. 14449.	Reservoir Street. Current flowing towards steel main. M. V. M. No. 679.	Park Avenue. Current flowing towards steel main. Ins't No. 4116.	Cushing Street. Current flowing towards steel main. M. V. M. No. 6789.
.25	.5	1.10	.35
.25	.8	1.25	.40
.28	.7	1.40	.35
.30	.6	1.40	.40
.25	.6	1.15	.40
.28	.6	1.55	.40
.35	.5	1.40	.35
.35	.4	1.45	.40
.35	.8	1.20	.40
.30	.8	1.40	.35
.28	.6	1.20	.40
.25	.5	1.45	.40
.22	.5	1.25	.30
.25	.7	1.00	.35
.20	.7	1.05	.35
.20	.6	1.00	.35
.15	.8	1.20	.35
.20	.7	1.00	.30
.15	.6	1.20	.25
.25	.5	1.45	.30
.25	.4	1.00	.35
.21	.7	1.30	.40
.25	.5	1.25	.30
.21	.8	1.20	.40
.20	.7	1.05	.40
.25	1.0	1.40	.35
.25	.7	1.20	.40
.25	.5	1.45	.40
.25	.5	1.25	.40
.25	.4	1.70	.40
	.6		
Ave. = .25 M. V.	.7	Ave. = 1.26	Ave. = .37 M. V.
	.8		
30.5 Amp.	.7	= 1.62 M. V.	4.3 Amp.
	.8		
	.7	7.5 Amp.	
	.6		
	Ave. = .64 M. V. 10.3 Amp.		

Table 15.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

Drop on 40-inch pipe at Cambridge Common, June 8, 1904. One point at 40-inch gate and other point 48 feet west. Readings taken, first, under normal conditions, second, with bond between rail and pipe at Garden Street, third, with bond between rail and pipe between Sparks and Appleton Streets on Huron Avenue.

Readings taken between 2.55 and 4.06 P. M., Milli-Volt meter No. 14449.

Readings in Milli-Volts.

Normal Conditions. Current Flowing East.		With Bond at Garden Street. Current Flowing West.		With Bond at Appleton Street. Current Flowing East=+.	
1.2	2.6	4.0	3.8	.6	—1.6
.6	2.4	5.0	4.6	—1.2	— .2
.6	2.2	4.8	5.0	—1.8	2.4
.4	1.4	4.6	1.8	— .4	.0
1.7	1.2	4.8	2.9	2.0	—1.0
1.8	2.6	5.2	4.0	2.2	— .4
1.8	3.2	4.8	3.0	— .2	1.6
1.4	3.6	5.0	2.4	.2	1.8
1.2	3.0	5.8	3.2	.8	2.4
1.4	2.8	5.8	4.2	.2	1.2
1.6	3.0	5.2	4.4	.0	.4
1.4	2.8	5.2	4.0	.4	1.8
2.0	2.6	3.0	4.4	— .4	.4
.8	3.0	2.8	4.8	— .2	.6
1.6	3.2	3.2	4.0	— .6	1.0
1.6	2.6	3.0	3.0	— .4	.6
1.8	2.6	3.8	3.2	.0	— .2
1.6	1.9	4.2	3.2	— .1	.4
1.4	1.9	3.2	4.8	.0	1.4
2.4	2.4	4.2	5.0	— .2	.6
1.6	1.8	3.2	2.6	— .2	.4
1.4	2.4	3.8	2.2	.3	1.0
.8	2.2	3.4	3.8	— .8	— .6
2.0	1.6	2.0	4.2	—1.8	1.0
	1.7		3.8	— .6	— .4
				1.6	1.4
Average=1.94 M. V.		Average=3.92 M. V.		— .4	.0
27.9 Amp.		56.4 Amp.		Average=+.28 M. V.	
				4.3 Amp.	

Table 16.

ELECTROLYTIC INVESTIGATION ON 40-INCH STEEL PIPE, HURON AVENUE, CAMBRIDGE.

June 9, 1904.

Excavation East of Appleton Street.

Comparison between drop over one section of 40-inch steel pipe 6.9 feet long, and a length, including 14 sections and 14 joints, 92.6 feet long,

Drop over 92.6 feet. Milli-Volts.	Drop over 6.9 feet. Milli-Volts.	
5.2	.35	
5.2	.35	
5.4	.35	
5.1	.35	$\frac{5.20}{.35} = 14.9 \times 4 = 59.6$
Ave. 5.2		
4.4	.3	
4.8	.3	
4.8	.3	
4.6	.3	
4.6	.3	
4.6	.3	
4.4	.3	
4.4	.3	
4.6	.3	
4.8	.3	$\frac{4.60}{.30} = 15.3 \times 10 = 153.0$
Ave. 4.6		
4.2	.25	
4.0	.25	
4.2	.25	
4.2	.25	
3.9	.25	
3.8	.25	$\frac{4.10}{.25} = 16.4 \times 6 = 98.4$
Ave. 4.1		
3.4	.2	
3.4	.2	
3.4	.2	
3.4	.2	
3.2	.2	
3.0	.2	
3.0	.2	
3.2	.2	
3.0	.2	
3.4	.2	
2.9	.2	
3.0	.2	$\frac{3.20}{.20} = 16.0 \times 12 = 192.0$
Ave. 3.2		
2.4	.15	
2.5	.15	$\frac{2.40}{.15} = 16.3 \times 2 = 32.6$
Ave. 2.45		34 535.6

Average ratio between drops over 92.6 feet and 6.9 feet lengths = 15.8
Ratio between lengths . . . . . = 13.4
Ratio between drop on pipe with joints and pipe without joints = 1.18

REPORT OF THE WATER REGISTRAR

WATER REGISTRAR'S OFFICE,
CAMBRIDGE, December 1, 1904.

To the Cambridge Water Board: —

GENTLEMEN: — In compliance with the requirements of the City Ordinance I present the fortieth annual report of the operations of this department showing the receipts, expenditures and abatements, together with a statement of the number of water takers, etc., for the year ending November 30, 1904.

Amount of bills remaining unpaid November 30, 1903: —

Water rates	$4,622 73
Supplies and repairs	769 45
Off and on	130 00
Seals	10 00
Maintenance account	600 96
Construction account	269 33

Amount of bills placed in hands of City Treasurer for collection from November 30, 1903, to November 30, 1904: —

Water rates	$347,107 78	
Supplies and repairs	3,391 70	
Off and on	637 00	
Rents	168 00	
Seals	99 75	
Maintenance account	1,094 73	
Construction account	2,032 57	
Total bills		$360,934 00

There has been collected: —

Water rates	$342,483 02
Supplies and repairs	3,372 21
Off and on	604 00
Rents	168 00
Seals	99 25
Maintenance account	1,093 07
Construction account	2,090 64

There has been abated: —

Water rates, off and on, and seals, supplies and repairs, and Construction account	3,917 88	

There remains uncollected: —

Water rates	$5,410 37	
Supplies and repairs	778 18	
Off and on	150 00	
Seals	8 50	
Maintenance account	602 62	
Construction account	156 26	
		$360,934 00

EXPENDITURES.

Construction (General account)	$21,851 98	
Maintenance (General account)	97,845 40	
		$119,697 38

ABATEMENTS.

Water rate, Construction and supply and repair bills to the amount of	$3,917 88

REFUNDS.

Water rates to the amount of	$3,373 75	
Which amount deducted from receipts	342.483 02	
Leaves net receipts for water	$339,109 27	
Add off and on, fines, rents, seals and Maintenance account	1,964 32	
Makes net receipts of rates, fines, etc.		$341,073 59

OFF AND ON.

Water has been shut off for non-payment of rates, or per order on account of vacancy, and seals have been applied to fixtures by request of owners, as follows: —

Water shut off in 1904	731
Supplies let on, shut off in 1904	565
Supplies let on, shut off in previous years	98
New supplies let on	110
Seal locks applied to fixtures in 1904	543
Seal locks removed, put on in 1904	301
Seal locks removed, put on in previous years	349

Statement of yearly revenue received from water rates since the purchase of the works by the City: —

From April 28, 1865, to December 1, 1865	$32,367 19
From December 1, 1865, to December 1, 1866	40,073 27
From December 1, 1866, to December 1, 1867	53,733 62

From December 1, 1867, to December 1, 1868	$63,747 42
From December 1, 1868, to December 1, 1869	76,149 30
From December 1, 1869, to December 1, 1870	92,605 95
From December 1, 1870, to December 1, 1871	111,782 65
From December 1, 1871, to December 1, 1872	127,201 30
From December 1, 1872, to December 1, 1873	146,117 32
From December 1, 1873, to December 1, 1874	153,634 27
From December 1, 1874, to December 1, 1875	138,880 37
From December 1, 1875, to December 1, 1876	179,166 76
From December 1, 1876, to December 1, 1877	154,843 59
From December 1, 1877, to December 1, 1878	157,443 91
From December 1, 1878, to December 1, 1879	164,681 90
From December 1, 1879, to December 1, 1880	173,325 49
From December 1, 1880, to December 1, 1881	170,062 73
From December 1, 1881, to December 1, 1882	177,430 80
From December 1, 1882, to December 1, 1883	179,361 89
From December 1, 1883, to December 1, 1884	161,526 27
From December 1, 1884, to December 1, 1885	185,544 36
From December 1, 1885, to December 1, 1886	199,404 43
From December 1, 1886, to December 1, 1887	204,748 64
From December 1, 1887, to December 1, 1888	211,156 27
From December 1, 1888, to December 1, 1889	221,124 70
From December 1, 1889, to December 1, 1890	231,116 32
From December 1, 1890, to December 1, 1891	227,054 53
From December 1, 1891, to December 1, 1892	237,527 08
From December 1, 1892, to December 1, 1893	242,219 78
From December 1, 1893, to December 1, 1894	250,032 71
From December 1, 1894, to December 1, 1895	268,813 62
From December 1, 1895, to December 1, 1896	281,030 00
From December 1, 1896, to December 1, 1897	291,457 62
From December 1, 1897, to December 1, 1898	297,129 78
From December 1, 1898, to December 1, 1899	302,569 00
From December 1, 1899, to December 1, 1900	319,479 37
From December 1, 1900, to December 1, 1901	320,468 01
From December 1, 1901, to December 1, 1902	323,500 53
From December 1, 1902, to December 1, 1903	333,777 34
From December 1, 1903, to December 1, 1904	339,109 27

Comparative Statement.

	1903.		1904.	
Construction Account. (Hobbs Brook Reservoir.)				
Received.				
From surplus receipts		$12,229 61		$797 84
From bonds issued				
Expended.				
Construction of reservoir, land settlements, services of City Solicitor, etc		12,229 61		797 84
Balance to credit of Construction Account				
Construction Account. (General.)				
Received.				
From City of Waltham and sale of old materials	$5,727 85		$2,145 64	
From bonds issued	11,025 61			
From surplus receipts	9,717 54		6,261 44	
Balance from 1903			12,647 06	
From premium on bonds		$26,471 00		$21,054 14
Expended.			$13,600 99	
Sundry bills and pay rolls	$8,429 25		3,999 12	
Meters and setting	2,212 51		3,454 03	
Examination of Stony Brook main	3,482 18			
Balance to credit of Construction Account	12,347 06			
		26,471 00		21,054 14
Maintenance Account.				
Received.				
From "rates, fines, etc."	$341,604 60		$347,217 15	
From supply and repair account.	4,260 50		3,372 21	
From sale of shrubs, grass, etc.	669 35		1,093 07	
Interest for 1902 reappropriated	3,160 00			
Interest for 1903 reappropriated			4,280 00	
		$349,694 45		$355,962 43
Expended.				
Care and repairs	$21,649 90		$27,673 50	
Work at Fresh Pond	5,840 70		9,996 93	
Payson Park Reservoir	801 81		784 33	
Hobbs Brook Reservoir	1,203 07		1,468 64	
Stony Brook	4,025 28		2,999 96	
Supplies and repairs, pipes and fittings	2,499 90			
Salaries	7,103 58		9,463 50	
Pumping, salaries and other expenses	20,704 71		17,298 19	
Ice for drinking fountains	460 56		460 35	
Refunds	3,169 06		3,373 75	
Abatements	3,756 45		3,917 88	
Sinking fund	121,522 50		121,522 50	
Interest on water debt	128,806 50		126,126 50	
Transferred to Construction Account	21,947 15		7,059 28	
Interest on water debt reappropriated	4,280 00			
Excess of receipts	1,923 28			
Fresh Pond grading			12,500 00	
Purchase of Metropolitan water			14,000 00	
Rent			1,200 00	
		349,694 45		359,845 31
Maintenance account, excess of receipts		$1,923 28		
Maintenance account, deficit in receipts				$3,882 88

In addition to the customary expenditures, there has been paid this year from the receipts from water the following amounts, viz. : —

Construction Account	$7,059 28
Metropolitan water	15,218 00
Grading at Fresh Pond Reservoir . .	12 500 00
	$34,777 28

If the above unusual expenditures had not occurred, there would have been excess receipts of over $30,000.00.

In addition to the manufactories, business blocks, houses, etc., supplied through meters, water is supplied to 17,052 families, 527 stables, 1,566 horses, 68 cows, 154 shops, 357 offices and stores, by the following fixtures, viz. : —

19,662 faucets.	33 urinals.
7,347 wash basins.	7 yard hydrants.
10,400 wash tubs.	1 fountain.
6,817 bath tubs.	12 tumbler washers.
146 slop closets.	1,623 hand hose.
17,492 water closets.	5 motors.
2 hopper closets.	

Also,

1,018 fire hydrants (beside 19 on private premises).
8 fire reservoirs.
28 drinking fountains in public squares.
65 street watering standpipes.
4 public sanitaries.

The above schedule of fixtures does not include those in schoolhouses, engine houses, police stations, and other City buildings, or where the use of water is covered by meter.

The usual house-to-house inspection has been made.

Respectfully submitted,

WALTER H. HARDING,

Registrar.

ANNUAL STATEMENT OF THE WATER REGISTRAR TO THE COMMITTEE ON ACCOUNTS, DECEMBER 1, 1904

Uncollected November 30, 1903: —

Water rates	$4,622 73	
Supplies and repairs	769 45	
Off and on	130 00	
Seals	10 00	
Construction account	269 33	
Maintenance account	600 96	
		$6,402 47

Bills placed in the hands of City Treasurer for collection from December 1, 1903, to December 1, 1904: —

Water rates	$347,107 78		
Supplies and repairs	3,391 70		
Off and on	637 00		
Rents	168 00		
Seals	99 75		
Maintenance account	1,094 73		
Construction account	2,032 57		
		354,531 53	
Total bills			$360,934 00

There has been collected: —

Water rates	$342,483 02	
Supplies and repairs	3,372 21	
Off and on	604 00	
Rents	168 00	
Seals	99 25	
Maintenance account	1,093 07	
Construction account	2,090 64	
Total collections		$349,910 19

There has been abated: —

Water rates, off and on, and seals, supplies and repairs, and Construction account	$3,917 88

There remains uncollected : —

Water rates	$5,410 37		
Supplies and repairs	778 16		
Off and on	150 00		
Seals	8 50		
Maintenance account	602 62		
Construction account	156 26		
		$7,105 93	
Total bills for collection			$360,934 00
Less abated	$3,917 88		
Less refunded	3,373 75		
Less unpaid	7,105 93		
		$14,397 56	
Net receipts			$346,536 44

Attest :

WALTER H. HARDING,
Registrar.

CAMBRIDGE, December , 1904.

We have examined the accounts of the Water Registrar and find that they correspond in the amounts collected, abated, refunded, and uncollected with the statement submitted by the City Treasurer and verified by the City Auditor.

Committee on Accounts.

CITY OF CAMBRIDGE,
OFFICE OF CITY TREASURER.

To the Cambridge Water Board : —

I give you herewith a record of the transactions between the Water Office and the City Treasurer's Office during the year ending November 30, 1904.

Gross collections for account of Water Works — "Maintenance," "Water Rates" and "Supply" Accounts	$351,682 43
Gross collections for account of Water Works — "Construction" Account	2,145 64
"Abatement" certificates received and paid on "Water Rates" .	3,917 88
"Refund" certificates received and paid to amount of . . .	3,373 75
Uncollected bills in my hands November 30, 1904, for account of "Water Rates," "Maintenance" and "Supply" Accounts .	6,949 67
Uncollected bills November 30, 1904, for account of "Construction"	156 26

Very respectfully,

WM. W. DALLINGER,
City Treasurer.

I have examined the above statement and find it correct.

HARRY T. UPHAM,
City Auditor.

REPORT OF THE SUPERINTENDENT OF WATER WORKS

CAMBRIDGE, December 3, 1904.

To the Honorable Water Board of the City of Cambridge: —

GENTLEMEN: — Complying with the City Ordinance, I herewith submit the annual report of the Superintendent, for the year ending November 30, 1904.

	Gallons.
Total water pumped	2,831,342,145
Total water purchased from Metropolitan Water and Sewerage Board	379,640,000
Total water consumed	3,210,982,145
Quantity of water sold by meter	1,143,795,390
Quantity of water used for sprinkling streets	66,600,000
Quantity of water used for flushing sewers	2,000,000
Quantity of water used for cleaning sanitaries	7,500,000
Quantity of water used for public buildings	28,049,287
Quantity of water used for drinking fountains	35,000,000
Quantity of water used for testing meters	40,125
Quantity of water used for fire purposes	3,000,000

Number of gallons daily for each inhabitant on the total amount consumed, 89.68.

COMPARATIVE STATEMENT OF TOTAL CONSUMPTION DURING THE PAST TEN YEARS.

Date.	Total Yearly Consumption.	Increase or Decrease.	Average Daily Consumption.	Increase or Decrease	Gallons to each inhabitant daily.
1895	2,190,781,892	62,903,265 increase	6,002,142	172,338 increase	71.65
1896	2,413,506,557	222,724,665 "	6,594,280	592,138 "	75.90
1897	2,441,340,196	27,833,639 "	6,688,603	94,323 "	76.46
1898	2,792,321,110	350,980,914 "	7,650,195	961,592 "	85.69
1899	2,882 570,430	90,249,320 "	7,897,453	247,258 "	87.16
1900	2,651,277.240	231,293,190 decrease	7,263,773	633,680 decrease	78.69
1901	2,785,156,440	133,879,200 increase	7,630,566	366,793 increase	80.87
1902	2,930,553,545	145,397,105 "	8,028,914	398,348 "	85.27
1903	3,160,704,360	230,150,815 "	8,659,463	630,549 "	89.56
1904	3,210,982,145	50,277,785 "	8,773,175	113,712 "	89.68

Total amount of coal consumed	3,650,513 lbs.
Amount consumed in 45 days in which Metropolitan Water and Sewerage Board supplied City	49,473 "
Total amount used for pumping purposes	3,601,040 "
Daily average amount used for pumping purposes (321 days)	11,218 "
Daily average on total amount consumed	11,372 "

Coal consumed per million gallons pumped	1,272 lbs.
Highest water elevation in Fresh Pond was on June 4th	17.09
Lowest water elevation in Fresh Pond was on February 28th	9.42
Average height of water in Fresh Pond	12.68
Highest water elevation in Stony Brook Reservoir was on April 30th	83.04
Lowest water elevation in Stony Brook Reservoir was on July 17th	79.79
Highest water elevation in Hobbs Brook Reservoir No. 1, Lincoln Street, was on April 30th	182.05
Lowest water elevation in Hobbs Brook Reservoir No. 1, Lincoln Street, was on September 14th	180.15
Highest water elevation in Hobbs Brook Reservoir No. 2, Winter Street, was on April 30th	182.00
Lowest water elevation in Hobbs Brook Reservoir No. 2, Winter Street, was on November 13th	178.50
Total rainfall at Fresh Pond Pumping Station	42.80
Total rainfall at Stony Brook Reservoir	41.18
Total rainfall at Hobbs Brook Reservoir	39.95

TOTAL RAINFALL FOR THE PAST TEN YEARS.

Month.	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
December	4.43	1.90	1.63	4.31	2 00	1.30	1.74	7.71	4.37	2.87
January	3.57	2.46	3.32	4.75	3.85	4.40	1.55	1.97	3.19	5.00
February	1.07	5.62	2.36	3.61	3.99	7.34	.79	4.29	3.50	3.00
March	2.68	4.37	2.66	2.03	5.94	5.10	6.89	6.16	4 89	2.35
April	4.15	1.70	2.82	6.22	1.32	1.99	8.80	3.56	3.98	8.57
May	2.39	2.42	4.24	3.92	.77	5.52	6.96	1.08	.35	3.58
June	2.76	2.33	5.16	1.82	3.17	2.75	1.33	2.40	8.46	2.74
July	3.28	2.65	4.68	4.50	3.12	2.31	4.70	3.14	3.72	1.70
August	4.71	2.45	5.06	7.34	3.21	2.80	4.17	3 62	3.81	2.53
September	1.83	6.29	3.22	1.78	4.63	4.40	3.74	3.36	1.72	5.87
October	10.16	3.10	.55	7.22	3.08	3.75	2.86	4.65	4.54	1.85
November	6.09	3.53	6.83	4.92	2.20	5.25	2.67	1.37	1.70	2.83
Total	47.12	38.82	42.53	52.42	37.28	46.89	46.20	43.31	44.23	42.89

FRESH POND AND SURROUNDINGS.

The work of caring for the grounds, walks and roads about the Pond this year has employed more help than last, and the condition has been much more satisfactory.

The work of improving that portion of the borders of the Pond known as Kingsley Park, in accordance with the plans of Messrs. Olmsted Brothers, was begun on August 29th, and has continued to the present time, giving employment to some sixty men, and twenty to thirty teams. The work has so far progressed that a comparatively small appropriation will be necessary to finish it.

On April 27th, the water in the Pond having fallen to grade 10.90, it was deemed wise by the Water Board to purchase water from the

Metropolitan Water and Sewerage Board to supply the City while the water from Stony Brook was filling Fresh Pond. Accordingly, the gate on the forty-eight inch line, located in the Cambridge Common, was opened on April 27th, and the City supplied through the Venturi meter connected with the same, until June 4th, when the Pond had risen to grade 17.09 and the supply was shut off.

The pumping from the Pond was resumed on that date.

The amount of water consumed by the City while the gate was open was 331,540,000 gallons.

On November 24th, the Pond level having fallen to 11.99, the gate was again opened and we are at present being supplied with Metropolitan water.

The standing grass around the Pond, not needed by the department, has been sold at public auction.

The average height of the Pond for the year has been 12.68.

FRESH POND RESERVOIR.

	Lowest Elevation During Month.	Highest Elevation During Month.	Monthly Rainfall.	Intake Gate. This gate has been closed daily for one-half hour in the morning and one-half hour in the afternoon, *i. e.*, 8 to 8.30 a. m. and 4 to 4.30 p. m. for the purpose of expelling the air from the Stony Brook main.			
				8-inch Opening.		30-inch Opening.	
				Opened.	Closed.	Opened.	Closed.
1903							
December 3.	.....	11.60	.....	During entire year, 28 turns		During entire year, 30 inches	
December 31.	11.14	.....	2.87				
1904							
January 1.	.....	11.08	.....				
January 31.	10.26	.....	5.				
February 1.	.....	10.31	.....				
February 28.	9.42	.....	3.				
March 1.	9.42	.....	.....				
March 31.	.....	10.52	2.35				
April 1.	10.51	.....	.....				
April 30.	.....	12.06	8.57				
May 1.	12.26	.....	.....				
May 31.	.....	16.62	3.58				
June 4.	.....	17.09	.....				
June 29.	15.86	.....	2.74				
July 1.	.....	15.90	.....				
July 30.	14.55	.....	1.70				
August 1.	.....	14.69	.....				
August 29.	13.65	.....	2.53				
September 1.	.....	13.80	.....				
September 29.	13.23	.....	5.87				
October 1.	.....	13.36	.....				
October 31.	12.51	.....	1.85				
November 24.	11.99	.....	.....				
November 30.	.....	12.83	2.83				
			42.89				

PUMPING STATION AND GROUNDS.

The buildings at the station have been painted and are in good condition.

The grounds have received the usual care.

On September 10th, Mr. E. I. Harris, who had been Chief Engineer since May 1, 1898, resigned, and Mr. William H. Blaisdell, for the past fourteen years Assistant Engineer, was appointed Chief Engineer.

Mr. George F. Haven has been appointed Assistant Engineer, to succeed Mr. Blaisdell.

The engines and boilers have received but slight repairs in the past year; but during the time when the engines have been stopped opportunity has been given for making the necessary cleaning, inspection and repairs

	Low Service Engines.						High Service Engine.			Engine No. 7.			Total Running Time.		Total Water Pumped.	Total Purchased from Metropolitan Water and Sewerage Board.	Total Water Consumed.	Daily Average Water Consumed.	Total Coal Consumed.	Daily Average Coal Consumed.	Average Height of Pond.	Rainfall.
	Engine No. 1.			Engine No. 2.																		
	Running Time.		Water Pumped	Running Time.		Water Pumped	Running Time.		Water Pumped	Running Time.		Water Pumped.										
1903.	Hrs.	Min.	Gallons.	Hrs	Min.	Gallons.	Hrs.	Min.	Gallons.	Hrs.	Min.	Gallons.	Hrs.	Min.	Gallons.	Gallons	Gallons.	Gallons.	Lbs.	Lbs.	Feet.	Ins.
December.										335	45	275,246,840	335	45	275,246,840		275,246,840	8,878,930	372,400	12,013	11.37	2.87
1904.																						
January...										441	15	304,044,400	441	15	304,044,400		304,044,400	9,807,883	378,900	12,222	10.67	5.
February..										522	30	292,277,480	522	30	292,277,480		292,277,480	10,078,533	395,850	13,650	9.80	3.
March.....										430	30	260,823,640	430	30	260,823,640		260,823,640	8,413.666	328,410	10,594	10.02	2.35
April.....										312	45	215,549,840	312	45	215,549,840	27,200,000	242,749,840	8,091,661	268,576	10,329	10.92	8.57
May.....																274,400,000	274,400,000	8,851,613	28,262		14.61	3.58
June.....	24	..	7,291,500	24	..	7,804,300	8	..	474,705	266	30	221,116,280	322	30	236,686,785	29,940,000	266,626,785	8,887,559	311,670	11,543	16.54	2.74
July.....										311	30	271,314,120	311	30	271,314,120		271,314,120	8,752,068	333,900	10,770	15.23	1.70
August....										305	15	262,107,120	305	15	262,107,120		262,107,120	8,455,068	318,750	10,282	14.21	2.53
September.										314		252,276,200	314		252,276,200		252,276,200	8,409,206	316,765	10,5[illegible]8	13.50	5.87
October....										342		265,614,800	342		265,614 800		265,614,800	8,568.219	328,500	10,597	12.82	1.85
November.										253		195,400,920	253		195,400,920	48,100,000	243,500,920	8,116,697	268,530	11,675	12.31	2.83
Total.....	24	..	7,291,500	24	..	7,804,300	8	..	474,705	3,835	..	2,815,771,640	3,891	..	2,831,342,145	379,640,000	3,210,982,145		3,650,513			42.89
Daily average																		8,773,175		11,372	12.68	

OPERATING EXPENSES AT PUMPING STATION.

Buildings, repairs and painting	$1,103.05
Coal	7,998.73
Express	16.34
Ice	29.00
Lighting	83.28
Oil, grease and packing	467.88
Repairs, boiler	123.61
Repairs, engines	195.06
Telephone	60.74
Tools and hardware	65.22
Miscellaneous	66.03
Salaries	7,089.25
	$17,298.19

THE FORTY-INCH STEEL DISTRIBUTING MAIN.

During the month of March, last, a leak occurred on this line near Appleton Street, and upon digging down we found a hole about five-eighths-inch (5-8-in.) in diameter through the pipe and pittings around the hole that seemed to indicate electrolysis. A further examination showed that the pipe was in such condition that a thorough examination was desirable, and consequently about four hundred feet were uncovered; in this length more than four hundred pittings were found.

During the time of investigation and repair, nine holes developed, which were plugged temporarily with pine plugs.

In addition to the section near Appleton Street, another section between Fayerweather Street and Lake View Avenue developed three leaks, and examination showed it to be in bad condition, in some respects worse, if possible, than the portion near Appleton Street, as will be seen by photographs in this office, for which we are indebted to Mr. Dexter Brackett, Engineer of Distribution of Metropolitan Water and Sewerage Board, as well as for some of the details of the electrical report.

The matter of the repair of the pipes was a question.

As this main could not be shut down, the ordinary means could not be adopted, nor could the holes be tapped and plugged, therefore it was decided to repair it in the manner specially adapted to meet the contingency.

Patches to cover the places affected were made of five-sixteenths-inch (5-16-in.) steel, rolled to the shape of the course to be repaired, and a gasket of the best rubber packing obtainable (one-quarter-inch (1-4-in.) thick) placed under patch. These patches and gaskets were then held by shoes and bolts. Where the shoe would cover the area of the damage, only a gasket was used under the shoe.

Previous to making the repairs, the pipe was thoroughly painted.

A thorough electrical survey of the line and all connections was made by Mr. Charles H. Morse, expert for the Water Department, assisted by the electricians of the Boston Elevated Railway and Mr. Foss of the Engineering Department of the Metropolitan Water Works. The report of Mr. Morse will be found on page 25.

Since the pipe was repaired, no leaks have occurred.

Insulating joints have been placed in Reservoir Street in the twenty-inch (20-in.) cast iron main, connecting to the forty-inch (40-in.) steel line; and in the twelve-inch (12-in.) line in Cushing Street.

One insulating joint in the six-inch (6 in.) line in Park Avenue remains to be placed.

These joints are of the same design as those used by the Metropolitan Water Works.

The forty-inch (40-in.) pipe has also been connected to the rails of both tracks at Sparks Street with a suitable switch, and stations for observation have been made at different points on the line.

PAYSON PARK RESERVOIR.

The grounds about the reservoir are in good condition.

The gate house will need to have the stone work thoroughly pointed and the wood work painted this season.

PIPE YARD.

The dwelling house and shed should be shingled and the stable have new doors this season.

The shop will need no repairs.

HIGH SERVICE.

Following is the list of streets supplied from the high service : —

Agassiz Street.
Appleton Street, from Highland Street to beyond Hutchinson Street.
Arlington Street.
Avon Hill Street.
Bates Street.
Bellevue Avenue.
Bellevue Avenue, west.
Buena Vista Park.
Concord Avenue, from Huron Avenue to Buckingham Street.
Garden Street, from Huron Avenue to Linnaean Street.
Highland Street, from Reservoir Street to Appleton Street.
Hillside Avenue.
Holly Avenue.
Humboldt Street.
Huron Avenue, from Appleton Street to Raymond Street.
Lancaster Street.
Linnaean Street.
Mount Pleasant Street.
Raymond Street, from Linnaean Street to Walden Street.
Reservoir Street, from Highland Street.
Upland Road, from Richdale Avenue to Huron Avenue.
Vassal Lane from Huron Avenue.
Vincent Street.
Walnut Avenue.
Washington Avenue.

LIST OF CHECK VALVES IN USE.

Appleton Street at Hutchinson Street.
Avon Hill Street and Linnaean Street.
Concord Avenue at Buckingham Street.
Garden Street and Linnaean Street.
Raymond Street and Linnaean Street.
Upland Road near Mount Vernon Street.
Vincent Street at Walden Street.

LEAKAGE.

There were two thousand one hundred fourteen (2,114) leaks reported and cared for during the year: —

One hundred ninety-seven (197) on supplies in street.
Nine (9) on hydrants.
Fifteen (15) on gates.
One (1) on fountain.
One (1) on street water standpipe.
Eight (8) on four-inch mains.
Nine (9) on six-inch mains.
One (1) on eight-inch main.
Two (2) on ten-inch mains.
One (1) on twelve-inch main.
One (1) on sixteen-inch main.
Two (2) on twenty-inch mains.
One (1) on thirty-inch (Stony Brook) main.
One (1) on forty-inch pumping main (at pumping station).

Two hundred forty-nine (249) total leaks reported and cared for by the department.

Twenty-four (24) of the leaks on supplies in streets, included in foregoing statement, were caused by electrolysis; this number is the largest annual amount ever reported.

But outside of this number and not included above is the number of leaks caused by electrolysis on our forty-inch steel main which was laid in 1895 and, until this year, has given us no trouble.

I refer you to page 25 for account of this electrolytic action.

The repairs on this main necessitated a great expense which was not anticipated nor provided for in our annual appropriation. The cost of labor alone was fourteen hundred fifty dollars and fifty cents ($1,450.50).

The following account of leaks were reported by our inspectors and were found by them on the annual canvass: —

Three hundred sixty-one (361) on faucets.

Fourteen hundred thirty-two (1,432) on water closets.

Twenty-eight (28) on pipes.

Twelve (12) on tanks.

Fourteen (14) on basins.

Eight (8) on bath tubs.

Five (5) on set tubs.

Five (5) on stops and wastes.

TABLE SHOWING GAIN IN THE TOTAL CONSUMPTION FOR THE YEAR 1904 OVER THE YEAR 1903.

	Total Consumption 1904.	Total Consumption 1903.	Increase.	Decrease.
1903				
December	275,246,840	281,443,360	.....	6,196,520
1904				
January	304,044,400	301,018,080	3,026,320	.....
February	292,277,480	250,631,040	41,646,440	.....
March	260,823,640	254,024,760	6,798,880	.....
April	242,749,840	244,855,160	.....	2,105,320
May	274,400,000	281,320,600	.....	6,920,600
June	266,626,785	278,104,640	.....	11,477,855
July	271,314,120	282,725,080	.....	11,410,960
August	262,107,120	247,052,080	15,055,040	.....
September	252,276,200	239,901,640	12,374,560	.....
October	265,614,800	259,578,880	6,035,920	.....
November	243,500,920	240,049,040	3,451,880	.....
Total	3,210,982,145	3,160,704,360	50,277,785	.....

MAIN PIPE.

Five thousand, one hundred seventy-four and one-half (5,174½) feet of main pipes have been laid during the year, of which one thousand, four hundred eleven and one-half (1,411½) feet were laid for extensions, and three thousand, seven hundred sixty-three (3,763) feet were laid for renewals of main pipes which had been in use for many years.

The tables of main pipes laid will be found on pages 67 and 77.

The following-named streets are those in which the main pipes have been renewed : —

In Harvard Street, from Hancock Street to connect to ten-inch main laid in 1903, four hundred sixty (460) feet of ten-inch pipe have been laid ; this will take the place of the six-inch pipe formerly in this location, which was inadequate and old, having been laid in 1867.

In Lake Street, from Magazine Street to Pearl Street, the old six-inch main, laid in 1868, has been removed and four hundred fifty (450) feet of six-inch pipe have been laid.

In Park Street, from Magazine Street to Pleasant Street, five hundred forty-seven (547) feet of six-inch pipe have been laid ; the old four-inch pipe, which has supplied this vicinity since 1867 and 1869, has been removed.

In Perry Street, from Magazine Street to Pearl Street, four hundred forty-nine (449) feet of six-inch pipe have been laid ; a four-inch pipe has previously supplied this section and has been in use since it was first laid, three different years, *i. e.*, 1868, 1870 and 1872.

In River Street, from Blackstone Street and connected with sewer by a blow-off, three hundred fifty-four (354) feet have been laid ; the department has removed the six-inch pipe which has supplied this section since 1872.

In Rockwell Street, from Pleasant Street to River Street, four hundred twenty-two (422) feet of six-inch pipe have been laid ; the four-inch pipe, laid in 1868, has been removed.

In Upton Street, from Magazine Street to Pleasant Street, the old four-inch pipe, laid in 1867, has been replaced by five hundred thirty-six (536) feet of six-inch pipe.

In Warland Street, from Magazine Street to Pleasant Street, five hundred seven (507) feet of six-inch pipe have been laid ; the old four-inch pipe, part of which was laid in 1867, and a part in 1872, has been removed.

The inspection and blowing off of all the main pipes in the City have been found to be of such benefit to the condition of the water that it now may be considered an annual necessity.

This Spring it was again made under the direction of a foreman in the department with good results.

In addition to this, during the season several cases of disturbed condition of water have been cared for separately by thoroughly blowing off the mains, whose conditions have been reported; in the majority of cases the sections where these complaints arise are supplied by pipes having dead ends.

As in former years, the department has responded to the requests of the Sewer and Street Departments, during their works of construction, and in each case where repairs have been made necessary by the building of new work, the cost of the same has been charged and met by the constructing department.

In Dinsmore Court the four-inch main pipe has been raised throughout its entire length.

In Green Street, from Pleasant Street to Vernon Street, the old four-inch pipe has been removed in order to give its location to the Cambridge Sewer Department, which has constructed a sewer in the street. The old four-inch main was laid in the years 1869 and 1871.

In December, 1903, a connection was made between the twenty-four-inch mains and the supply main of the Metropolitan Water and Sewerage Board at the location in Cambridge Common opposite Holmes Place, where these pipes cross.

See page 56 for a more extended account of the necessity for this connection.

MAIN PIPE LAID, NUMBER OF GATES AND FIRE HYDRANTS.

	Iron Pipe.		Gates.	Hydrants.
	Feet.	Size.	Size.	Kind.
Baldwin Street and Magnolia Avenue	15	6		Chapman.
Belmont Street, extension	32	1¼		
Berkshire and Bristol Streets	43	6	6	Chapman.
Bridge Street, near Prison Point				Boston.
Broadway and Elm Street				Chapman.
Broadway and Davis Street				Chapman.
Broadway and Moore Street	18	6		Chapman.
Cambridge Common	2	20	20	
Cambridge Common	13½	24		
Cambridge and Harding Streets				Flush.
Cambridge and Marion Streets				Chapman.
Concord Avenue and Madison Street				Chapman.
Erie Street, at Brookline Street				Flush.
Exeter Park, from Massachusetts Avenue	281	6		
Exeter Park, at Massachusetts Avenue			6	
Exeter Park, end of pipe	3½	1½		
Fayerweather Street, toward Vassal Lane	155	8		
Fayerweather Street, near Vassal Lane	7½	6		Chapman.
Garden Terrace, end of pipe	3½	1½		
Garden Terrace, from Garden Street	269	6		
Garden Terrace, at Garden Street			6	
Gerry Street, at Chapman Place				Flush.
Harvard Street, from Hancock Street toward Dana Street	460	10		
Harvard Street, near Hancock Street	7	6		Chapman.
Hollis Street, at bend				Chapman.
Holworthy Street	4	4		
Huron Avenue, at Holly Avenue	7	6		Chapman.
Jefferson Street, at Warren Street			4	
Kirkland Street, at Kirkland Road	8	6		Chapman.
Kirkland Street, at Quincy Street				Flush.
Lake Street, from Magazine Street to Pearl Street	450	6		
Linnaean Street, at Potter Park	8	6		Chapman.
Magazine Street, at Park Street				Chapman.
Magazine Street, at Upton Street				Chapman.
No. 31 Main Street				Flush.
No. 51 Main Street				Flush.
Massachusetts Avenue, at Exeter Park	2	12		
Market Street, at Clark Street	7	6		Chapman.
Mount Auburn Street, at University Road	36	6		Chapman.
Norris Street, southwest from Massachusetts Avenue				Chapman.
Park Street, from Magazine Street to Pleasant Street	547	6		
Park Street, at Magazine Street			6	
Park Street, at Pleasant Street			6	
Park Street, at Pleasant Street	8½	6		Chapman.
Perry Street, from Magazine Street to Pearl Street	449	6		
Pleasant Street, at Park Street	3	12		
Pleasant Street, at Warland Street	3	12		
Rice Street				Flush.
River Street			6	
River Street, from Blackstone Street	369	6		
River Street, beyond Blackstone Street				Chapman.
Rockwell Street, at bend				Boston.
Rockwell Street, at Pleasant Street			6	
Rockwell Street, from Pleasant Street to River Street	422	6		
Sherman Street, at Winslow Street	8	6		Chapman.
Sidney Street, from Erie Street, northeast	144	12		
Trail Street, extension, toward Mount Auburn Street	72	6		
Upland Road, at Walnut Avenue				Chapman.
Upton Street, from Magazine Street to Pleasant Street	536	6		
Upton Street, at Magazine Street			6	
Upton Street, at Pleasant Street	23½	6		Chapman.
Upton Street, at Pleasant Street			6	
Warland Street, near River Street	3½	1½		
Warland Street, from Magazine Street to Pleasant Street	507	6		
Warland Street, from Pleasant Street to River Street	247	6		
Warland Street, at Magazine Street			6	
Warland Street, at Pleasant Street			6	
Warland Street, at Pleasant Street			6	
Washington Avenue, near Upland Road				Holyoke.

SUPPLIES.

The total number of supplies laid to date, November 30, 1904, is fourteen thousand eight hundred three (14,803).

See page 76 for recapitulation table of these supplies with pipe, valves, etc., furnished.

One hundred four (104) supplies were laid of galvanized pipe in sizes from three-fourth-inch to two-inch inclusive, and seven (7) supplies were of cast iron pipe and laid in the following locations: —

One four-inch for E. & R. Laundry on Massachusetts Avenue at Winsor Street.

One four-inch for A. H. Hews Company on Crescent Avenue.

One four-inch for Dr. Sargent's Gymnasium on Everett Street.

One four-inch for Asa C. Lamson on Main Street.

Two four-inch for Isaac McLean on Mount Auburn Street.

One six-inch (one thousand forty (1,040) feet in length) for Harvard University from Kirkland Street across the grounds to Massachusetts Avenue.

The total number of supplies laid during the year, *i. e.*, one hundred eleven (111) is the smallest annual number laid with one exception; in 1878 only one hundred two (102) supplies were laid during the year.

In 1894, ten years ago, there were four hundred thirteen (413) supplies laid

This exhibit shows the small amount of construction of new buildings that has been done during the year.

Thirty-nine (39) old supplies have been furnished with sidewalk shut off cocks and boxes.

In Dinsmore Court, where the main pipes and supplies were too deep, the entire number of supplies, fourteen, (14) were renewed.

In Green Street, at Vernon Street, etc., four (4) old supplies formerly on the old four-inch main have been renewed in the street and connected to the twenty-inch main.

One hundred seventy-two (172) supplies have been renewed in cases where the original supplies were old, leaking or too small to supply the premises.

Two supplies have been extended.

For the use of the George G. Page Box Company, the four-inch supply has been removed and a six-inch laid in its location.

In the following-named streets, where the main pipes have been renewed, the supplies also have been renewed in the streets to the property lines, as follows: —

Harvard Street	7	3-4-inch
	2	1-inch
Lake Street	6	3-4-inch
Park Street	13	3-4-inch
Perry Street	13	3-4-inch
River Street	6	3-4-inch
	1	1-inch
Rockwell Street	12	3-4-inch
Upton Street	15	3-4-inch
Warland Street	8	3-4-inch
	4	1-inch
	87	

Total number of supplies renewed during the year was two hundred seventy-eight (278).

Following is the list of establishments having fire protection from the City of Cambridge: —

American Rubber Co.,	Binney Street,	Two 6-in.
American Net & Twine Co.,	Third Street,	Two 6-in.
American Net & Twine Co.,	Third Street,	8-in.
American Vulcanized Fibre Co.,	Tannery Street,	2-in.
Barber Asphalt Paving Co.,	First Street,	6-in.
Bay State Metal Works,	Harvard Street,	6-in.
Blacker & Shepard,	Osborn Street,	2-in.
Blake, George F., Manufacturing Co.,	Binney Street,	8-in.
" " " "	Third Street,	4-in.
Boston Book Binding Co.,	Mt. Auburn Street,	6-in. & 4-in.
Boston Elevated Railway Co.,	Baldwin Street,	2-in. & 4-in.
" " " "	Cambridge Street,	Two 2-in.
" " " "	Pelham Street,	Three 4-in.
" " " "	Massachusetts Avenue,	4-in.
" " " "	Mt. Auburn Street,	4-in. & 2-in.
" " " "	Murray Street,	4-in.
" " " "	River Street,	4-in.
Boston & Maine Railroad	Bridge Street,	4-in.
" " "	Bridge Street,	6-in.
" " "	East Street,	6-in.
" " "	Prison Point Street,	4-in.

Boston Woven Hose & Rubber Co.,	Portland Street,	8-in. & 10-in.
Cambridge Gas Light Co.,	Third Street,	6-in.
Cambridge Electric Light Co.,	Western Avenue,	6-in.
Cambridge Laundry,	Kinnaird Street,	6-in.
Cambridge Mutual Fire Insurance Co.,	Massachusetts Avenue,	2-in.
Chelmsford Foundry Co.,	Portland Street,	2-in.
Dover Stamping Co.,	Pleasant Street,	6-in.
Fogarty & Daly,	Massachusetts Avenue,	4-in.
Ginn & Co.,	First Street,	Two 6-in.
" "	Athenaeum Street,	8-in.
Goepper Bros.,	Ninth Street,	1-1-2-in.
Harvard University,	Harvard Union, Harvard St.,	4-in.
" "	Memorial Hall, Cambridge St.,	4-in.
" "	Observatory, Concord Ave.,	6-in.
" "	Semitic Mus'm, Divinity Ave.,	4-in.
Hews, A. H., Co.,	Crescent Avenue,	Two 4-in.
Holy Ghost Hospital for Incurables,	Hovey Avenue,	3-in.
Houghton, Miflin & Co.,	Albro & Blackstone Streets,	6-in.
" " "	River Street,	6-in.
Irving & Casson,	Otis Street,	6-in.
" "	Thorndike Street,	Two 6-in.
" "	Thorndike Street,	2-in.
Ivers & Pond Piano Co.,	Albany Street,	4-in. & 6-in.
Keeler & Co.,	Thorndike Street,	1-in.
Kendall, Edward, & Sons,	Main Street,	2-in.
Lamb & Ritchie,	Albany Street,	6-in.
Lever Bros. Co.,	Broadway,	6-in.
" " "	Broadway,	8-in.
Little, Brown & Co.,	Putnam Avenue,	6-in.
Lockhart, Wm. L., & Co.,	First Street,	6-in.
Luke, E. H., Estate of,	Main Street,	2-in.
Mason & Hamlin Co.,	Broadway,	Two 6-in.
McLean, Isaac,	Mt. Auburn Street,	4-in.
Metropolitan Storage Warehouse Co.,	Massachusetts Avenue,	6-in.
Middlesex C'ty, House of Correction,	Second & Spring Streets,	6-in.
National Biscuit Co.,	Franklin Street,	4-in.
" " "	Franklin Street,	6-in.
" " "	Green Street,	8-in.
National Linseed Oil Co.,	Fifth Street,	6-in.
North Packing & Provision Co.,	Winsor Street,	6-in.
O'Brien, John (Rev.),	Seventh Street,	4-in.
Page, Geo. G., Box Co.,	Hampshire Street,	Two 6-in.
Petterson, Oscar G.,	483 Main Street,	4-in.
Pierce, Thomas, Trustees of Estate of,	Broadway,	6-in. & 4-in.
Pi Eta Club,	Winthrop Street,	2-in.
Porter, Henry S.,	Kinnaird Street,	4-in.
Reardon, John, & Sons, Corporation,	Waverly Street,	4-in.
Reardon, William,	Portland Street,	2-in.
Revere Sugar Refinery,	Water Street,	6-in.
Reversible Collar Co.,	Putnam Avenue,	6-in.
Russell, Lucy J.,	29 Elm Street,	1-1-2-in.
Rice, P. G., & Co.,	Massachusetts Ave. & Lee St.,	Two 2-in.
Sawyer, Howard M., & Son,	Thorndike Street,	4-in.
" " " "	Second Street,	6-in.
Seavey Manufacturing Co.,	Third Street,	6-in.
Seelye Manufacturing Co.,	First Street,	4-in.

Simplex Electrical Co.,	Auburn Street,	3-in.
" " "	Auburn Street,	6-in.
" " "	Franklin Street,	8-in.
Slavens, Luther R.,	Broadway,	2-in.
Sparrow, H. F., & Co.,	Hampshire Street,	6-in.
Speare's, Alden, Sons & Co.,	Rogers Street,	4-in.
" " " "	Sixth Street,	4-in.
Standard Oil Co.,	Potter Street,	6-in.
Standard Turning Works,	Main Street,	2-in.
Thayer & Co., Henry,	Broadway,	6-in.
Tower, Sylvester, & Son,	Broadway,	4-in.
University Associates,	Linden Street,	4-in.
" "	Massachusetts Avenue	6-in.
University Press,	Nutting Place,	6-in.
Wetmore, C. D.,	Claverly Hall, Mt. Auburn St.,	4-in.
Whittemore Brothers,	Albany Street,	4-in.

DRINKING FOUNTAINS.

The number of drinking fountains and troughs remains unchanged, *i. e.*, twenty-eight (28).

Of the above number, four (4) are of the Jenks manufacture and are ice water drinking fountains. These were supplied with ice at an expense to the Water Department, from June 25th to October 17th, inclusive, as follows: —

Central Square fountain	$112.50
East Cambridge fountain	145.50
Harvard Square fountain	105.60
North Cambridge fountain	96.75
	$460.35

Average cost per day of supplying ice (97 days) for these fountains was, per fountain, $1.20.

In response to the calling the department's attention to acts of 1902 by the Cattle Bureau of State Board of Agriculture, the fountains and troughs have been carefully watched and cleaned, in order, if possible, to help suppress the contagion of the disease of glanders, which has been more or less prevalent in some sections of the State during the past year.

In the early part of the year the fountains, for a short time, were shut off for this reason.

In all sections of the City the fountains have been painted and the usual repairs that were necessary were made.

STREET WATERING STANDPIPES.

Sixty-five (65) street watering standpipes are in use at this date, November 30, 1904.

There have been two additions made during the year, one at the corner of Norfolk and Washington Streets, and one on Erie Street, near Brookline Street.

At the corner of Broadway and Sixth Street a new standpipe has been set to replace one removed, which was broken by a team.

The Street Department, as in former years, has reimbursed this department for the expense incurred by repairs on these watering standpipes.

GATES.

Twenty-three (23) new gates have been set during the year (see recapitulation table on pages 76 and 77).

Nine (9) have been set on renewals of main pipe.

Four (4) have been set on new mains (extensions).

Nine (9) have been set on supplies.

One (1) has been set in place of broken, removed.

In nineteen (19) cases the gates have received repairs, made necessary by leaking, etc.

The annual inspection of gates has shown that they are in first-class condition.

Their locations have been carefully marked.

BOXES.

There have been eighty-one (81) boxes set during the year.

Seventeen (17) iron boxes, four (4) small wooden boxes, and one (1) hydrant box have been set on extensions and renewal of main pipes.

Fourteen (14) special boxes have been set on meters.

Eighteen (18) iron boxes have been set on supply work.

One (1) hydrant box, two (2) wooden boxes, and twenty-four (24) iron boxes have been set on worthless ones removed.

The gate boxes in all parts of the City have been inspected, and raised, lowered or repaired, as the change in grade of street has required. In cases where they have been affected by frost they have received the necessary care.

HYDRANTS.

There are one thousand eighteen (1,018) hydrants in use at this date, November 30, 1904.

Boston	156
Chapman	542
Coffin	41
Flush	98
Holyoke	90
Perkins	91
	1,018

Thirty-three (33) hydrants have been set during the year, *i. e.*, fourteen (14) in new locations, and nineteen (19) in place of old or broken hydrants removed.

See page 67 for locations of this new work and changes.

Flush hydrants have been removed from the following streets : —

Broadway at Elm Street.

Broadway at Davis Street.

Cambridge Street at Harding Street.

Concord Avenue at Madison Street.

Erie Street at Brookline Street.

Green Street at Vernon Street.

Hollis Street at bend.

Kirkland Street at Quincy Street.

No. 31 Main Street.

No. 51 Main Street.

Magazine Street at Park Street.

Magazine Street at Upton Street.

Pleasant Street at Park Street.

Pleasant Street at Upton Street.

Rice Street.

Post hydrants have been removed from the following streets : —

Bridge Street near Prison Point Street (Boston).

Cambridge Street at Marion Street (Boston).

Norris Street (Coffin).

Upland Road at Walnut Avenue (Boston).

Washington Avenue near Upland Road (Holyoke).

In the following named streets the hydrants have been repaired: —

Antrim Street.

Austin Street at Essex Street.

Banks Street at Mt. Auburn Street.

Blanche Street at Massachusetts Avenue.

Bow Street at Linden Street.

Brookline Street at Green Street.

Chestnut Street at Whitney Avenue.

Cambridge Street at Elm Street.

Distillhouse Street.

Hampshire Street at Amory Street.

Harvard Street at Main Street.

Harvard Street at Prospect Street.

Harvard Street at Winsor Street.

Kenwood Street at Putnam Avenue.

Leonard Avenue.

Mechanics Square.

Norris Street.

Scott Street.

Tannery Street.

Trowbridge Street.

Waterhouse Street.

In Van Norden Street the hydrant has been lowered to accomodate the Street Department.

In Concord Avenue the hydrant at corner of Madison Street has been relocated.

On the premises of the George G. Page Box Company the hydrant has been changed, at the expense of the company.

There have been three new post hydrants set in Harvard University grounds; these are the property of the University and at its expense were set by this department, when the work of laying the new six-inch supply main in the grounds was in process.

METERS.

During the year there have been three hundred sixty-three (363) meters set in locations not covered by meter at this time last year; their kind, sizes and numbers are found in the the table following: —

	5-8 inch.	3-4 inch.	1 inch.	1 1-2 inch.	2 inch.	3 inch.	4 inch.	Total.
Crown	.....	.....	.....	1	1	.....	1	3
Hersey	5	5	3	2	2	.....	.....	17
Keystone	50	.....	.....	.....	.....	.....	.....	50
Lambert	3	.....	.....	.....	.....	.....	.....	3
Thompson	.....	2	.....	.....	.....	.....	.....	2
Trident	7	5	6	.....	.....	2	.....	20
Union Rotary	.....	.....	.....	1	1	1	.....	3
Worthington	227	26	9	1	2	.....	.....	265
	292	38	18	5	6	3	1	363

There are twenty-five hundred ninety-six (2,596) meters in use at this date, November 30, 1904.

Following find table of kind, sizes and numbers of meters in use on domestic supplies, churches and manufactories: —

	5-8 inch.	3-4 inch.	1 inch.	1 1-2 inch.	2 inch.	3 inch.	4 inch.	6 inch.	Total.
Ball & Fitts	.....	.....	2	.....	.....	.....	.....	.....	2
Crown	10	14	6	4	7	.....	2	.....	43
Empire	.....	.....	2	.....	.....	.....	.....	.....	2
Gem	.....	.....	.....	.....	.....	.....	.....	1	1
Hersey	748	293	111	13	21	4	1	1	1,192
Keystone	55	.....	.....	.....	.....	.....	.....	.....	55
Lambert	99	28	5	.....	.....	.....	.....	.....	132
Nash	15	.....	.....	.....	1	.....	.....	.....	16
Thompson	3	5	.....	1	.....	.....	.....	.....	9
Trident	369	231	102	20	14	5	.....	.....	741
Union Rotary	13	9	3	10	14	7	7	3	66
Worthington	239	36	26	12	18	4	2	.....	337
	1,551	616	257	60	75	20	12	5	2,596

And forty-eight (48) in public buildings, for which the department receives no income.

These meters are placed on the buildings in use by the City, *i. e.*, schools, engine houses, stations, etc., in order to determine the amount of water used for such purposes: —

	5-8 inch.	3 4 inch.	1 inch.	1 1-2 inch.	2 inch.	Total.
Ball & Fitts	.....	.....	1	.....	.....	1
Crown	1	.....	2	1	1	5
Hersey	.....	8	7	.....	.....	15
Trident	5	1	10	.....	.....	16
Thompson	.....	.....	.....	1	.....	1
Union Rotary	.....	.....	.....	.....	1	1
Worthington	1	2	6	.....	.....	9
	7	11	26	2	2	48

STONY BROOK PIPE LINE.

The only repair required on this line during the year has been one small leak at Arlington Street, Watertown.

The reading of the Venturi meter has been taken at frequent intervals and shows that the discharge from this main has been kept at least as high as it has been for some years past.

The gates at the Pond have been closed twice each day and the air removed from the pipe.

The air ejectors have been in constant operation.

STONY BROOK.

Two new cesspools have been constructed during this year.

One vault has been discontinued and one house has been connected with cesspool previously built, making twenty-three cesspools and eighteen vaults to be cared for.

A new set of screens has been made for the gate house which will add much to the facility of cleaning.

The stone work of the gate house should be thoroughly repointed and a new granolithic walk put down around the same this year.

HOBBS BROOK.

The water in this basin has not been down below grade 178.50 during the year and has continued to be of the best quality.

The standing grass not needed has been sold to the highest bidder.

The bushes and weeds along the highways around the basin have been cut and the grass on the dams kept mowed.

RECAPITULATION.

NEW SUPPLIES.

	6 Inch	4 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	Total
Length, in feet, of pipe	1,040	289½	559½	39	387	502½	2,919	5,736½
Number of supplies	1	6	8	1	7	14	74	111
Number of stop and waste valves	.....	4	6	1	7	13	74	105
Number of screw cocks	.....	.....	6	1	9	14	73	103
Number of sidewalk cocks	.....	.....	.....	.....	7	14	73	94
Number of service boxes	.....	.....	.....	.....	.....	.....	.....	94
Number of gates	3	6	.....	.....	.....	.....	.....	9
Number of gate boxes	.....	.....	.....	.....	.....	.....	.....	18

MAIN PIPE.

	24 Inch	20 Inch	12 Inch	10 Inch	8 Inch	6 Inch	4 Inch	1½ Inch	1¼ Inch	Total
Length, in feet, of pipe extensions.	13½	2	146	.....	155	1,048½	4	10½	32	1,411½
Length, in feet, of pipe renewals...	.....	.....	6	460	.....	3,297	.....	.....	.....	3,763
Total length, in feet, of pipe.....	13½	2	152	460	155	4,345½	4	10½	32	5,174½
Number of gates.....	.....	1	.....	.....	.....	12	1	.....	.....	14
Number of hydrants.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33

TABLE SHOWING NUMBER OF GALLONS, BY THE MONTH, FLOWING OVER THE WATERWAY AT STONY BROOK BASIN.

	Gallons.	Number of Days.		Gallons.	Number of Days.
1903.			May.....	1,584,300,000	31
December	18,400,000	10	June.....	233,000,000	21
			July	5,900,000	3
1904.			August.....	.....	.....
			September.....	63,500,000	5
January.....	37,200,000	9	October.....	.....	.....
February.....	176,600,000	29	November.....	1,500,000	2
March	1,746,000,000	31			
April.	1,859,999,000	30		5,726,399,000	171

Total amount wasted . . . . . 5,726,399,000 gallons

Total number of days in which water wasted 171

STONY BROOK.				HOBBS BROOK.							
				LINCOLN STREET. Basin No. 1.				WINTER STREET. Basin No. 2.			
	Lowest elevation during month.	Highest elevation during month.	Rainfall.		Lowest elevation during month.	Highest elevation during month.	Rainfall.		Lowest elevation during month.	Highest elevation during month.	REMARKS.
1903.				**1903.**				**1903.**			**1903.**
Dec. 1	80.23		2.59	Dec. 9	180.70		2.45	Dec. 9	180.58		Dec. 10. Set first flash-board.
Dec. 14		81.15		Dec. 31		181.10		Dec. 31		181.07	
1904.				**1904.**				**1904.**			**1904.**
Jan. 13	80.08		4.46	Jan. 1	181.10		3.01	Jan. 1	181.07		Jan. 4. Removed first flash-board.
Jan. 24		81.19		Jan. 25		181.37		Jan. 25		181.32	Jan. 7. Set first flash-board.
Feb. 14	81.02		3.08	Feb. 16	181.30		2.10	Feb. 16	181.25		
Feb. 23		81.48		Feb. 29		181.42		Feb. 29		181.37	
Mar. 3	81.29		2.60	Mar. 6	181.40		2.50	Mar. 1	181.37		
Mar. 9		82.29		Mar. 26		181.70		Mar. 26		181.65	
Apr. 27	81.40		9.48	Apr. 26	181.40		7.60	Apr. 27	181.37		
Apr. 30		83.04		Apr. 30		182.05		Apr. 30		182.00	
May 30	81.33		2.51	May 26	181.38		4.05	May 27	181.33		
May 1		82.75		May 1		181.95		May 1		181.90	
June 26	80.92		2.64	June 25	181.20		3.18	June 25	181.15		
June 8		81.42		June 9		181.45		June 9		181.40	
July 17	79.79		2.01	July 31	180.70		2.35	July 31	180.55		July 16. Removed first flash-board.
July 2		81.10		July 1		181.30		July 1		181.25	July 23. Removed second flash-board.
											July 26. Removed third flash-board.
											July 30. Removed fourth flash-board.
Aug. 27	79.98		2.87	Aug. 31	180.40		3.60	Aug. 31	179.75		Aug. 25. Removed fifth flash-board.
Aug. 5		80.75		Aug. 3		180.65		Aug. 3		180.55	Aug. 26. Removed sixth flash-board.
											Aug. 27. Removed seventh flash-board.
Sept. 29	79.81		5.70	Sept. 14	180.15		5.87	Sept. 14	179.15		Sept. 4. Removed eighth flash-board.
Sept. 16		81.46		Sept. 16		180.65		Sept. 1		179.70	Sept. 5. Removed ninth flash-board.
											Sept. 10. Removed tenth flash-board.
											Sept. 15. Set tenth flash-board.
											Sept. 16. Set ninth flash-board.
											Set eighth flash-board.
											Set seventh flash-board.
											Sept. 27. Removed seventh flash-board.
											Sept. 28. Removed eighth flash board.
											Removed ninth flash-board.
Oct. 26	79.98		1.67	Oct. 10	180.45		1.73	Oct. 31	178.95		Oct. 1. Set ninth and eighth flash-boards.
Oct. 2		80.33		Oct. 14		180.55		Oct. 1		179.50	Oct. 4. Removed eighth and ninth flash-boards.
											Oct. 7. Removed tenth flash-board.
											Oct. 13. Set tenth flash-board.
											Oct. 17. Removed tenth flash-board.
											Oct. 21. Set tenth flash-board.
											Oct. 25. Removed tenth flash-board.
Nov. 2	80.00		1.57	Nov. 9	180.48		1.51	Nov. 13	178.50		Nov. 2. Removed eleventh flash-board.
Nov. 17		81.04		Nov. 18		180.60		Nov. 1		178.92	Nov. 5. Removed twelfth flash board.
			41.18				39.95				

COMPARATIVE TRENCHING FOR THE PAST TEN YEARS.

	Extensions.	Renewals.	Supplies.	Total Feet.	Miles.
1895	11,083	15,638½	22,266	48,987½	9.27
1896	17,621	26,043	17,361	61,025	11.55
1897	11,268	36,967½	16,121½	64,357	12.19
1898	11,045½	25,397	12,186	48,628½	9.21
1899	11,051½	9,427½	13,486½	33,965½	6.43
1900	9 174	412½	6,848	16,434½	3.11
1901	4,126	5,750	8,246	18,122	3.43
1902	4,392	5,941½	6,835½	17,169	3.25
1903	1,209	5,661½	5,3?3½	12,204	2.31
1904	1,411½	3,763	5,736½	10,911	2.06

SUMMARY OF STATISTICS

For the Year Ending November 30, 1904.

In form recommended by the New England Water Works Association

CAMBRIDGE WATER WORKS.

CITY OF CAMBRIDGE, COUNTY OF MIDDLESEX, STATE OF MASSACHUSETTS.

GENERAL STATISTICS.

Population by census of 1900 — 91,886.

Date of construction — 1855.

By whom owned — City of Cambridge.

Source of supply — Hobbs Brook and Stony Brook in Lincoln, Waltham and Weston, and Fresh Pond in Cambridge.

Mode of supply (whether gravity or pumping) — Gravity from Hobbs and Stony Brooks to Fresh Pond, pumping from Fresh Pond to Payson Park Reservoirs, thence by gravity to consumers.

PUMPING STATISTICS.

1. Builders of pumping machinery — One Leavitt built by Groshon High Duty Pumping Engine Company; two Worthington; one Blake.

2. Description of fuel used — *a.* Kind — bituminous.

b. Brand of coal — Cumberland and New River.

c. Price of coal per gross ton — delivered from December, 1903, to November 30, 1904, $4.20.

3*a*. Coal consumed for the year — 3,650,513 lbs.

3*b*. Coal consumed for pumping purposes only — 3,601,040 lbs.

4. (Pounds of wood consumed) ÷ 3 = equivalent amount of coal, 500 lbs.

5. Total equivalent coal consumed for the year = (3*b*) + (4) 3,601,540 lbs.

		Gallons
6*a*.	Total pumpage for the year without allowance for slip	2,831,342,145
6*b*.	Total amount purchased from Metropolitan Water and Sewerage Board	379,640,000
6*c*.	Total consumption for the year	3,210,982,145

7. Average static head against which pumps work — 158.03 feet.

8. Average dynamic head against which pumps work — 194.44 feet.

9. Number of gallons pumped per pound of equivalent coal (5) — 786.

10. $\text{Duty} = \frac{\text{2,831,342,145 gals. pumped} \times 8.34\,(\text{lbs.}) \times 100 \times \text{dynamic head, } 194.44}{\text{Total fuel consumed, 3,601,540 lbs.}} = 1{,}307{,}623$§

Cost of pumping, figured on pumping station expenses, viz.: $17,298.19.

11. Per miilion gallons pumped — $6.11.

12. Per million gallons raised one foot (dynamic) — .031.

§ Low duty engines were run 56 hours during year.

FINANCIAL STATISTICS FOR 1904.

Ordinary receipts	$5,336 53	
From consumers	342,483 02	
Abatements	3,917 88	
Construction account	2,090 64	
		$353,828 07

EXPENDITURES.

Total Maintenance:		Operating Expenses.
General expenses	$24,635 92	$24,635 92
Supply expense	3,037 58	
Salaries	9,463 50	9,463 50
Salaries, pumping	7,089 25	7,089 25
Pumping, general	10,208 94	10,208 94
Payson Park Reservoir	784 33	784 33
Fresh Pond Reservoir, general	9,996 93	2,730 00
Fresh Pond Reservoir, grading	12,500 00	
Hobbs Brook Reservoir	1,468 64	1,468 64
Amounts carried forward,	$79,185 09	$56,380 58

Amounts brought forward,	$79,185 09	$56,380 58
Stony Brook Reservoir	2,999 96	2,999 96
Ice for fountains	460 35	
Rent	1,200 00	1,200 00
Metropolitan water	14,000 00	
	$97,845 40	$60,580 54
Interest on bonds	126,126 50	
	$223,971 90	
Sinking Fund	121,522 50	
	$345,494 40	
Refunds and abatements	7,291 63	
		$352,786 03
(Transferred to Construction account, $7,059.28.)		
Construction :		
General	$13,600 99	
Hobbs Brook land	221 00	
Hobbs Brook, general	76 84	
City Solicitor	500 00	
Stony Brook Main	3,454 03	
Meters	3,999 12	
		21,851 98
		$374,638 01

Net cost of works to date	$5,772,507 13
Bonded debt at date	3,350,600 00
Value of Sinking Fund at date	1,218,686 74
Average rate of interest	3½ and 4 per cent.

STATISTICS OF CONSUMPTION OF WATER.

1. Estimated total population at date — 97,826.
2. Estimated population on lines of pipe — 97,826.
3. Estimated population supplied — 97,826.

4*a*. Total pumping for year — 2,831,342,145 gallons.

4*b*. Water purchased from Metropolitan Water and Sewerage Board — 379,640,000 gallons.

4*c*. Total consumption for the year — 3,210,982,145 gallons.

5. Passed through meters — 1,143,795,390 gallons.

6. Percentage of consumption metered — 35.6 per cent.

7. Average daily consumption — 8,773,175 gallons.

8. Gallons per day to each inhabitant — 89.68.

9. Gallons per day to each consumer — 89.68.

10. Gallons per day to each tap, 593.

11. Cost of supplying water, per million gallons pumped, figured on total maintenance operating expenses, $21.39.

12. Total cost of supplying water, per million gallons pumped, figured on total maintenance + interest on bonds, $65.95.

STATISTICS RELATING TO DISTRIBUTION SYSTEM.

MAINS.

Kind of pipe — cast iron.

Sizes — From 2-inch to 40-inch.

Extended — 1,411½ feet during year.

Renewed — 3,763 feet during year.

Total now in use — 125.62 miles.

Number of leaks per mile — 17.

Length of pipes 2 and 3 inches diameter — 2 miles.

Number of hydrants added during year (public) —13.

Number of hydrants (public) now in use — 1,018.

Number of stop gates added during year — 23.

Number of stop gates smaller than 4-inch — none.

Range of pressure on mains — 45 lbs. to 55 lbs.

SERVICES.

Kind of pipe — galvanized iron.

Sizes — Three-fourth inch to two inches of galvanized pipe. 3-inch, 4-inch, 6-inch and 8-inch of cast iron pipe.

Extended — 5,736½ feet.

Estimated total now in use — 115.16 miles.

Number of service taps added during year — 111.
Number now in use — 14,803.
Average length of service — 43 feet (for the year).
Average cost of service for the year — 17.69.
Number of meters added — 363.
Number now in use — 2,596.
Percentage of services metered — 17 %.

Respectfully submitted,

EDWIN C. BROOKS,
Superintendent.

REPORT OF THE ELECTRICAL DEPARTMENT

December, 1, 1904.

To the Honorable, the City Council of the City of Cambridge: —

Gentlemen: — I have the honor to submit herewith the sixth annual report of the Electrical Department.

The work of the department may be classified under the following divisions: —

1. Inspection of Electrical Wiring in Buildings.
2. Supervision of Poles and Wires in the Streets.
3. Electrical Construction and Consultation for various Municipal Departments.
4. Maintenance and Operation of the Fire Alarm Signal System.
5. Maintenance and Operation of the Police Signal System.
6. Construction for Fire Alarm and Police Signal Systems.
7. Supervision of Lighting of the City Streets.

INSPECTION OF ELECTRICAL WIRING IN BUILDINGS.

The work of inspecting electrical wiring in buildings is increasing so rapidly that if the inspections are to continue to be done as thoroughly as they should, an assistant inspector must be employed to give his whole time to this branch of the work. This year your Inspector found it necessary to take one of the members of the department as an assistant part of the time, and as a consequence much of his work was thrown on the other men, or neglected. It is false economy to compel the department to run short handed as it has been running in the past. This work is of primary importance and proper inspections conduce largely to the safety of the individual buildings involved and also to the City as a whole.

By an arrangement between this department and the Cambridge Electric Light Company, the service wires are not connected to any building until a certificate has been received by the company from the Inspector stating that the wiring in that building has been inspected and has been properly installed. The certificate also states the kind of service, and the voltage and amount of current allowed. By this means it is insured that all new wiring is properly installed before the current

is turned on. There are no means at present, however, to bring cases of alterations and additions to an installation to the Inspector's notice. In such cases reliance must be placed wholly on the person who does the work. Little or no trouble in this respect is experienced from the larger electrical firms doing business throughout the City ; most of it is caused by small jobbers and amateur electricians whose work is usually done poorly and in a way that makes it extremely dangerous to use.

The remedy for this is to compel electricians to register at the Inspector's office and take out a permit before beginning a piece of work. To bring this about the Inspectors in various cities in Eastern Massachusetts have formed an association called the Massachusetts Association of Municipal Inspectors. The first meeting was held in May in Boston and have continued monthly since that time. The primary object of the Association is to bring about greater uniformity in the rules for electrical wiring throughout the State. It is also the aim of the Association to bring electricians more definitely under the control of the Inspectors through the rules and if possible through legislation which the Association will endeavor to have passed.

There is a great deal of work in inspecting old installations throughout the City that should be done as a matter of precaution so that the owners may be advised to remedy many dangers that exist in the wiring in their buildings. This work cannot now be done and is a further argument for an assistant inspector. I sincerely hope that this matter may receive full consideration early in the coming year.

Following is a tabulated account of the inspections of interior wiring for the year : —

TABULATION OF INTERIOR WIRING INSPECTIONS MADE IN 1904.

Number of inspections	301
Number of visits	446
Capacity of 16 C. P. incandescent lamps installed	5,374
Number of low potential arc lamps installed	30
Number of motors installed	62
Horse power of motors installed	415

This does not include visits made by the Inspector for the purpose of giving advice about work or to suggest changes to be made in old installations.

SUPERVISION OF POLES AND WIRES IN THE STREETS.

This is a branch of the department that has received only a general attention for many years. Although the various companies maintaining

pole lines in the City must obtain a permit before running any wires, it is impossible on account of the stress of other work in the department to give to their work the attention that should be given to it. Every location where permission is asked to run wires should be visited and the conditions noted, so that the poles and arms may not be overloaded. This cannot be done with the present force in the department, and most of the permits must be given without looking up the locations.

A thorough examination of poles should be made every year by the City. This has not been done for several years, and as a consequence poles that are in a poor condition are not renewed in many cases until they become extremely dangerous.

This inspection of poles and locations for wires could be done by the assistant referred to above.

PERMITS TO RUN WIRES.

Number of permits to run wires issued to New England Tel. & Tel. Co. . .	444
" " " " " Cambridge Electric Light Co. . .	62
" " " " " Boston Elevated Railway Co. . .	1
Total	507

FIRE ALARM SYSTEM.

Early in the year the electric light whistle was changed from the old plant of the Cambridge Electric Light Company to the new plant. The old piping being wholly inadequate for the new position, new piping was installed. When the whistle was changed over it was found that it would not work well with the greater pressure of steam maintained in the new plant. After considering and rejecting a number of methods to decrease the pressure to the required amount, a new whistle was bought. The old whistle was taken in part payment, the actual cost in money being $25, of which the Electric Light Company paid $10. The result has been wholly satisfactory and much cheaper than any other method thought of or suggested for overcoming the difficulty.

No satisfactory drawings of the Fire Alarm and Police Telegraph circuits exist. The small plans now in the department were made in 1891 and do not show the changes and additions that have been made since that time. Large drawings, on a scale of one inch to 400 feet, have been started, and those of the Fire Alarm circuits are nearly finished. It was hoped that these would be ready to include in this report, but it was found to be impossible unless other important work was neglected.

Some of the circuits are much more heavily loaded than others and to make them more uniform street boxes have been changed from one

circuit to another. There is still much to be desired in this respect but the changes necessary to accomplish it would cost so much that I believe it best to allow the circuits to remain practically as they are until the system is changed as a whole.

Three new boxes, all private, have been added to the system, No. 454, Harvard College Yard; No. 436, Blake Pattern Building, Sixth Street; and No. 437, American Net and Twine Co., Second Street.

This year some of the boxes have been painted. They had not been painted for several years, and the old paint was thick and cracked. This old paint was scraped off and the iron cleaned before the boxes were repainted. Of the 101 street boxes, fifty-five have been painted once and thirty-nine twice; thirty were scraped clean before being painted. The remainder were rubbed down smooth with sand paper and emery cloth. This work will be continued next spring as soon as the weather permits.

Keys to fire alarm boxes are distributed among citizens living near the boxes. This year it was found necessary to repaint some of the signs bearing the names of the key-holders, but before doing so it was desired to make sure that the keys still remained at the houses named on the signs. So many discrepancies were found in the locations that a general looking up of key-holders all over the City was made. As a result of this investigation many keys were redistributed and new signs were made. Some householders who, according to the signs, were key-holders, knew that a key had been left at their house but did not know where it was then; others had a key hanging behind the door but the tag had been lost and they did not know what the key was for; others had moved away and taken the key with them. At many houses where keys were found it took several minutes to rouse the occupants, and it is reasonable to assume that in case of fire the same trouble might be experienced at a time when the saving of seconds of time is an important consideration. In two cases when boxes were pulled during the year, the door of the box was broken on account of inability to procure the key. On the whole, the conditions that were found are a strong argument in favor of keyless boxes throughout the City. I strongly recommend that next year a beginning be made in changing the doors of fire alarm boxes from the present key doors to the keyless variety, and that an amount be included in the annual appropriation for this purpose.

Many improvements have been made at the Fire Alarm Headquarters. Since May an operator has been on duty in the office day and night. This is a great advance over the old method of having one of the day force sleep in the office at night and being awakened to send out alarms or to answer calls from the police stations and engine houses. At present the day operator is on duty eleven hours and the night operator thirteen

hours in each twenty-four. I recommend that the salary appropriation for the coming year be sufficient to allow a third operator to be employed so that eight hour shifts may be made. In this case the operators would not require one day off in ten as is now the case to compensate for their long hours.

When the night operator was put on a change was made in the method of transmitting alarms of fire. Some old disused pieces of apparatus that had been in the department for years were overhauled and changed to do other work than they were originally intended for. In this way, for a very small cost, it became possible to install a take-up for the fire alarm register tape, and also a three dial transmitter for sending alarms to the Fire Department houses on the tapper circuits. Previous to this time the register tape ran over the edge of the table to the floor, which not only was unsightly but also necessitated removing the tape every day so that it might not become torn. With the take-up it runs sometimes for a week without being removed, and when taken off is already wound in a roll that may be filed away.

The transmitter lessens the chance of sending out alarms incorrectly through a mistake of the operator, and makes it impossible to send "mixed" alarms which are due to two or more boxes being pulled at nearly the same time. It also obviates the sending of single blows on open circuits, crosses, or other troubles which give an audible sign of their existence. Since June 30th, when the transmitter was first put in service, six cases have occurred where two or more boxes were pulled near enough together to cause the alarm to mix, but the use of the transmitter made it possible to send the alarms out properly, without the confusion to the Fire Department that had always existed previously in such a contingency.

This transmitter also sends out the alarms faster and more uniformly than had been possible before its use. The blows are now given in five-eighths of a second interval, compared with three-fourths of a second under the old method. With the old method the interval between blows varied in a way to bother the fireman in counting alarms, being sometimes fast and at other times slow. Now the interval is absolutely uniform and the alarms are sent with such a speed as to make them easy to count. The work of the transmitter is spoken of with much praise by the Chief Engineer and Assistant Engineer, and also by all the firemen who have been asked their opinion of it.

At the time the transmitter and take-up were installed, the keys and switches in the office used in sending out alarms were concentrated in one part of the operating table near the transmitter, instead of being scattered as they previously had been, thus making it possible for the operator to

do all the work of sending an alarm from one spot without moving about. This not only means a saving of time but also allows the operator to have everything before him at a glance.

The work of overhauling and cleaning all the apparatus in the office has been going on during the year. It was found advisable to renew the inking rolls, springs and pens of the twelve pen register and also to rewire and renew the insulation on the circuit drop. The latter obviated a great deal of trouble that had been occasioned by current jumping from one circuit to another during crosses with electric light wires. This work of cleaning and overhauling the office apparatus is still going on.

The wiring for the "grounds" in the office was all renewed this year, cable being substituted for loose wires. A new cable was also installed for the Circuit Drop. These cables not only have a better appearance than loose wires but also prevent the wires from coming in contact with others. Their installation was necessitated on account of current jumping across from one circuit to another during crosses with high tension wires.

Last year the fuses on the box circuits were brought down from the attic and a new fuse and protector board was installed in the office, making it possible for the operator to renew blown fuses without leaving the apparatus room without an attendant. This year a duplicate board was installed for the tapper circuits so that they conform with the box circuits in this respect.

The machines which were used to furnish current for the circuits before the storage batteries were installed and which have been maintained since that time for an emergency have been dismantled and removed to make room for a change in the location of the batteries. It is intended to change the battery room from its present place in the rear of the building to the room connected with the operating room and now used as a work-shop. This room is now ready except for repairs to be made by the Building Department, which repairs have been promised early in the coming year.

Two sets of gravity batteries for local circuits have been renewed with a different type of cell. The new cells give much better satisfaction than the old type, and require attention and renewal of materials much less often. I recommend that next year's appropriation include a sum sufficient to allow the department to make a like change in the Police Telegraph batteries at Stations 2 and 3. One of the storage battery sets was also renewed.

When the batteries are moved to the room near the operating room it will be expedient to install a duplicate set for the tapper circuits. This is desirable in order that one set may be in use while the other is being charged. Now when the single set used is being charged a machine must

be run to furnish current for the circuits. This arrangement requires that no current be kept on the circuits until an alarm is being sent out; in other words, the circuits are open except when being used for sending alarms or for testing. Therefore if a wire in these circuits breaks or other trouble occurs no knowledge of the trouble is obtained until a test is made. If an alarm came into the office between the time of a break and a test it could not be sent out on that circuit and the Fire Department houses reached by the circuit would not get the box on their tappers. If a duplicate set of batteries was used the current could be kept on all the time, the circuits being kept closed, and any trouble would make itself known instantly and could be remedied quickly. Therefore I recommend that this duplicate set be purchased next year.

I desire at this point in my report to call the attention of your honorable body to several important considerations.

The question of a new Central Fire Alarm Station is of primary importance. This has been the subject of recommendations by your Superintendent for many years, but nothing has been done toward its attainment. I believe it is not necessary in this report to enumerate all the reasons that exist showing the necessity for a new station; such a course would be a tiresome repetition of extracts from former reports. A few of the most important reasons, however, will not be out of place.

Foremost among these reasons is the necessity for new Central Station equipment. The old apparatus requires constant and careful attention and is a continued source of danger to the Fire Alarm System on account of the liability to permanent breakdown. All the apparatus is old and most of it is composed of second-hand material — material taken from other apparatus. I feel that I cannot bring before you too strongly this question of the condition of the Central Station apparatus.

The consideration of a new Central Station equipment is followed naturally by the question of proper surroundings for its installation. The present quarters are unsuitable for even the present apparatus, since, that being all that can be depended upon for the present, any damage to the building that would injure the apparatus would cripple the service seriously. The building is far from being fireproof, and even though in case of fire, the flames were confined to other parts of the building, there is still great danger from water, a small amount of which would work incalculable harm, and also the Fire Alarm circuits would probably be injured. Aside from these considerations, the space occupied by the Fire Alarm Headquarters is inadequate from the point of view of convenience and expediency; the quarters were not built for the purpose and were never rebuilt to fit the demands of the department requirements.

The question has arisen whether the fulfilment of the plans for a

rapid transit system for Cambridge will affect the site of the building in which the Fire Alarm Headquarters are now situated. This question is as yet unanswerable, but I submit it for your earnest consideration.

If the desired results in the matter of a new station cannot be brought about, I recommend that installing an emergency station be considered. This would require apparatus in another building, and also a cable running from such apparatus to a point near the present station where all the wire could be reached. Then in case the present station was burned out the emergency station could be put into working condition in short order.

The time is now ripe for putting the City wires underground. This work has already been delayed too long, and while it is good judgement to install it without further delay even if a new Central Station is not to be built at this time, it is better to consider it together with the erection of a new station. Most of the ducts that will be required by the City are already laid, approximately fifteen miles being ready for cable to be pulled in. The installation of underground cable will give better service in the Fire Alarm and Police Telegraph Systems, and will be easier and more economical to maintain once it is installed.

I respectfully ask your most earnest consideration of these matters during the coming year.

The following is a statistical review of the system : —

Central Station equipment	1
Fire alarm boxes on the street	101
Fire alarm boxes on private premises	30
Fire alarm boxes with keyless doors	30
Fire alarm boxes with glass doors	11
Fire alarm boxes with glass key boxes	16
Length of circuit wires in system, in miles	100
Tower bells connected with system	10
Steam whistles connected with system	3
Tappers in firemen's residences	58
Tappers in factories where firemen work	10
Tappers in permanent men's residences	26
Tappers in call men's residences	32
Tappers in Electrical Department men's residences	5
Tappers other than in factories or firemen's houses and not in engine houses	3
Telephones connected with the system	23
Number of bell alarms for fire sounded during the past year	230
Number of second alarms for fire sounded during the past year	3
Number of third or general alarms sounded during the past year	1
Number of "no school" alarms sounded during the past year	10
Number of still alarms reported during the past year	36

POLICE SIGNAL SYSTEM.

In May a new time stamp was installed in Station 1. The old stamp was then overhauled, repaired and substituted for those at Stations 2 and 3 in turn while the stamps at these stations were repaired. Thus the

installation of the new stamp leaves the department with an extra machine, which, though old and worn, can be used temporarily when one of the others is out of order. The registers at the three stations were also thoroughly overhauled and repaired. Since this work was done the troubles from these sources have been very slight. Most of the station trouble now reported is of such a nature as could be remedied easily by the station man if he understood the machine. Such work as inking the register, putting new ribbons in the time stamp, and starting or setting the clock in the time stamp should not require a visit to the station by a member of the Electrical Department. These and many similar troubles not of a technical nature that are reported to the department could and should be remedied by the station man. The station men, however, are night patrolmen who are called upon to do only a few hours duty a week at the station. Not only is there no incentive to induce these men to learn how to care for the apparatus or to take any pride in its proper working, but neither is there any opportunity to teach them how to care for it. I believe it to be for the best interests of both the Police Department and the Electrical Department to have men detailed especially for station duty. Besides doing the work of the Police Department better, these men could care for the instruments in many cases such as mentioned above, and would also be useful in assisting the Electrical Department during outside troubles when testing back to the station is resorted to. I make this recommendation with the hope that it will be taken up for consideration by the proper officials.

At the request of the Chief of Police, Box 22, Station 1, was changed from its position in front of the Pumping Station on Lakeview Avenue to the corner of Concord Avenue and Fresh Pond Avenue.

There is a great need of additional boxes in the Police Signal System all over the City. I recommend that next year an appropriation for new boxes be made.

On account of the Building Department breaking a new window in the front of the Brattle Square building, it was necessary to change the position of the Police Telegraph circuits entering the building. The entrance is still in the front but a cable was substituted for the single wires. This makes a safer and neater construction, especially since the installation of the new telephone system in this district would increase the number of wires by fifty per cent.

The most important and far-reaching improvement made in this branch of the department for several years is the change in the telephone service of the Police Telegraph System in District 1. For years it has been impossible at night and even difficult during the day to talk over this system on account of noises caused by induction. These induced currents are caused by the currents in the Electric Light, Boston Elevated

and Telephone wires on the same poles with the City wires, the principal trouble being from the Electric Light wires. The telephones of the Police Signal System were in series with the boxes and the two sides of a circuit do not run parallel to a sufficient extent to make it possible to balance the load on the circuit or to neutralize the induction by transposition of the wires. The only remedy was to use two conductor twisted wire. An extra appropriation of $1,200 for materials and $300 for salaries brought about the application of this remedy. The work was begun October 31st, and three of the four circuits, including twenty-eight of the thirty-three boxes, were finished on November 28th. This is somewhat more than it was anticipated could be done with the appropriation, but the additional amount required was taken from the regular appropriation for running expenses, in which the extra appropriation was incorporated. The telephones were cut out of the box circuits and cut in on the new circuits in multiple. The necessary changes in the station and in the boxes, including the addition of new telephone springs and terminal blocks in each box, were made without interfering with the use of the boxes by the police. Sufficient material for changing Circuit 1 are on hand, but on account of this circuit being in fairly good condition for use, the work has been postponed until next year to give an opportunity to do other work.

POLICE SIGNAL EQUIPMENT.

Three complete station equipments.
Two patrol wagon house equipments.
Eighty street patrol boxes.
Private telephone system with five stations.
* Fifty-eight miles of circuit wires.

* Ten and one-fourth miles of this wire is two conductor wire. In figuring the length it is considered as one wire.

Following is an inventory of the Wire Department. The figures are less than cost, but exceed a fair market value: —

INVENTORY OF THE WIRE DEPARTMENT.

Fire alarm apparatus and machinery	$11,300 00
Fire alarm and police telegraph circuits	5,200 00
101 fire alarm boxes	6,060 00
Fire alarm reserve apparatus	550 00
Police signal apparatus and machinery	3,000 00
Eighty police boxes	10,000 00
Police signal reserve apparatus	150 00
Testing instruments	450 00
Tools	500 00
Furnishings at fire alarm headquarters	400 00
Stock on hand	1,275 00
Old and disused apparatus	300 00
Horses, wagons and harnesses	450 00
Building in Belmont school yard	400 00
	$40,035 00

GENERAL CONSTRUCTION WORK.

As has been the custom in past years this department has done repair work for the various City departments on bells and electric lights, although to a less extent than heretofore. Unless the working force of the Electrical Department is increased this work will have to be discontinued and done by some of the various electricians throughout the City. The work of the department is increasing and cannot be neglected for the work in other departments.

The specifications for wiring the new engine house on Garden Street were drawn up and the work supervised by this department. The supervision of the wiring in the Kelley School was completed early in the year.

In the Fire Alarm and Police Telegraph Systems about $18\frac{3}{4}$ miles of iron wire and $10\frac{1}{4}$ miles of two conductor copper wire were pulled in. The iron wire was used on the box circuits, replacing old wire that has been up for many years. Many of the cross arms and pins for supporting the wires were so rotted as to require renewal at the same time.

The copper wire is No. 14 twisted two conductor hard drawn copper and was used for the new telephone system in Police District 1.

The completion of this work would have been impossible without the extra linemen hired at the time the extra appropriation was made. It is frequently the case that the amount of trouble that must be remedied quickly, often late at night and during bad weather, is beyond the immediate capacity of the permanent force of men in the department, so that while one piece of work is being done, others of equal importance must wait. Another lineman would better these conditions, and the amount of work in the department warrants his employment. I advise, therefore, that the salary appropriation be made sufficient to allow another lineman to be employed permanently.

LAMP DEPARTMENT.

Early in the present year the arc lamps for street lighting were changed from the old direct current open arcs to the series alternating enclosed arcs of the General Electric type, as was spoken of in last year's report. Gradually the mast arms have also been changed and the lamps placed at a uniform height above the street. The new mast arms are such as to allow the lamps to be lowered to the street to be trimmed, instead of necessitating the climbing of the pole, as was the case with the old type. About 375 mast arms have been changed up to the present date, and the remainder will be changed as soon as possible.

Negotiations were carried on last year with both the Cambridge Electric Light Company and the Welsbach Street Lighting Company to reduce the cost of street lighting in the City. These negotiations were resumed this year with the result that both companies agreed to give a reduction. Since May 16, 1904, the cost per lamp of the Welsbach lamps has been $29.52 per year, compared with $29.88 previous to that date, making a reduction of 36 cents per lamp per year. The cost of the arc lamps has been reduced from $100 per lamp per year to $96, a reduction of $4 per lamp per year. This reduction went into effect July 16, 1904. With the present number of street lamps, these two items mean a reduction in the cost of street lighting of $2,364.56 per year.

Contracts for street lighting were made under these new conditions with both the Cambridge Electric Light Company and the Welsbach Street Lighting Company.

The incandescent lamps used for street lighting cost nearly one-third as much as the same number of arc lamps, but their value as a street light might be represented by a much smaller fraction. If the amount spent for these incandescent lamps were used in paying for arc lamps, the streets would be better lighted than at present. I recommend that these incandescent lamps be discontinued gradually and arc lamps or Welsbach lamps be substituted for them, and that no more of the incandescent lamps be erected. If the location involved does not warrant the erection of an arc lamp, a Welsbach lamp may be erected. A Welsbach lamp costs less than an incandescent and is more efficient as a street light.

Following is a financial and statistical statement and an inventory of this department: —

FINANCIAL STATEMENT.

A more detailed account can be found in the Auditor's report.

Amount appropriated for salaries	$1,000 00
" " " other expenses	76,000 00

The principal items of expense are as follows: —

For arc lighting	$53,974 63
For incandescent lighting	12,772 93
For Welsbach gas lighting	8,540 00
Salary of Superintendent	1,000 00

The expense for electric lighting has been as follows: —.

ARC LAMPS.

Amount of bills rendered	$54,212 89
Amount of deduction for outage	238 26
Amount expended for arc lighting	$53,974 63

INCANDESCENT LAMPS.

Amount of bills rendered	$12,814 05
Amount of deduction for outage	41 12
Amount expended for incandescent lighting	$12,772 93

The expense for gas lighting has been as follows : —

WELSBACH GAS LAMPS.

Amount of bills rendered	$8,602 10
Amount deducted for outage	56 10
Amount expended for Welsbach gas lighting	$8,546 00

STATISTICAL STATEMENT.

The number of hours in which one or more lamps failed to burn is :—

For arc lamps	6,132
For incandescent lamps	4,112
For Welsbach gas lamps	5,610
Total outage hours for all lamps for year 1904	15,854

The number of lamps maintained by the City on the streets on November 30, 1904, is as follows :—

	Number Nov. 30, 1904.	Number Nov. 30, 1903.	Increase during the year.
Arc lamps	564½	543½	21
Incandescent electric lamps	438	423	15
Welsbach gas lamps	296	287	9
Total	1,298½*	1,253½*	45

* Half the expense of one lamp borne by private party.

INVENTORY OF LAMP DEPARTMENT.

296 lamp posts	$2,960 00
Office furniture	275 00
Stock on hand (old and disused)	385 00
Horse, carriage and harness	300 00
	$3,920 00

I respectfully call the attention of your Honorable Body to the recommendations contained herein, particularly those relating to a new Central Fire Alarm Headquarters, Central Office equipment, and keyless Fire Alarm boxes, with the hope that you may see the necessity for acting favorably on the suggestions connected therewith, to the end that

this department may no longer be slighted as I feel it has been in past years, in order that the City of Cambridge may have a Fire Alarm System which, involving as it does, the safety of the whole community, will be in keeping with the other public works maintained by the City.

To His Honor, the Mayor, and to the Chairman and members of the Committee on Wires and Lamps, I desire to express thanks for the courtesy and consideration shown me during the past year.

Respectfully submitted,

TIMOTHY C. O'HEARN,
Inspector of Wires,
Superintendent of Lamps.

REPORT OF THE BOARD OF PARK COMMISSIONERS

To the Honorable, the City Council of the City of Cambridge: —

GENTLEMEN: — We have the honor to herewith submit the twelfth annual report of the Board of Park Commissioners, together with the eleventh annual report of the General Superintendent of Parks, as required by Section 4 of the Ordinance establishing a Park Department.

Considering the small amount of money appropriated for construction this year, considerable work has been accomplished. The public can better see the results of our work as the roadway has been opened for public travel from Boylston Street to Western Avenue and from River Street to Pleasant Street.

We earnestly urge that a generous appropriation may be made the coming year so that the roadway may be completed from River Street to Magazine Street.

For particulars of the work done during the past year, we respectfully refer you to the accompanying report of the General Superintendent who has so adequately covered the ground.

FINANCIAL STATEMENT.

PARK LOAN.

Amount of unused balance of 1903 appropriation reappropriated December 3, 1903		$9,245 99
Amount appropriated February 25, 1904		15,754 01
Amount appropriated October 19, 1904		6,000 00
		$31,000 00

PARK MAINTENANCE.

Brown Tail Moth Extermination.		
Amount appropriated January 28, 1904	$2,500 00	
Amount appropriated February 25, 1904	1,200 00	
Amount appropriated March 10, 1904	500 00	
Amount appropriated March 17, 1904	1,000 00	
Amount appropriated April 15, 1904	500 00	
Amount appropriated September 21, 1904	1,000 00	
		$6,700 00
Cambridge Field and Shelter.		
Amount appropriated February 25, 1904	$6,000 00	
Amount transferred to Police Department September 15, 1904	600 00	
		5,400 00

Commons, Squares and Public Grounds.		
Amount appropriated February 25, 1904		$5,000 00
Shade Trees.		
Amount appropriated February 25, 1904		5,000 00
Sections G and H.		
Amount appropriated February 25, 1904		3,300 00
Sections A, B, D, F and Rindge Field.		
Amount appropriated February 25, 1904	$3,200 00	
Amount transferred to Police Department September 15, 1904	500 00	
		2,700 00
Bath House.		
Amount appropriated February 25, 1904	$2,200 00	
Amount transferred to Police Department September 15, 1904	500 00	
		1,700 00
General Account.		
Amount appropriated February 25, 1904		600 00

During the year bills payable from Park Loans have been approved by the Board and certified to the Auditor to the total amount of $25,576.13, as follows: —

PARK LANDS AND CONSTRUCTION.

River Parkway, Section A.		
Construction account	$11 00	
Land account	15 00	
		$26 00
River Parkway, Section B.		
Construction account	2,721 27	2,721 27
River Parkway, Section C.		
Construction account	3,626 82	3,626 82
River Parkway, Section D.		
Construction account	4,436 71	4,436 71
River Parkway, Section F.		
Construction account	6,422 35	6,422 35
River Parkway, Section G.		
Land account	1,210 00	1,210 00
Rindge Field.		
Construction account	1,834 23	1,834 23
Nursery.		
Construction account	908 22	908 22
East Cambridge Embankment.		
Construction account	400 00	400 00

General Account.		
Construction account	$2,864 89	$2,864 89
Office Expenses.		
Construction account	1,125 64	1,125 64
Amount expended		$25,576 13
Balance unexpended		5,423 87

During the year bills payable from Park Maintenance have been approved by the Board and certified to the Auditor, as follows: —

	Amount expended.	Balance unexpended.
Brown Tail Moth Extermination	$6,699 57	$ 43
Cambridge Field and Shelter	5,399 14	86
Commons, Squares and Public Grounds	4,999 90	10
Shade Trees	4,999 70	30
Sections G and H	3,298 10	1 90
Sections A, B, D, F and Rindge Field	2,699 71	29
Bath House	1,696 30	3 70
General Account	599 99	01

From the above it will be seen that the amount expended during the year under Park Loans was divided as follows: —

Construction account	$24,351 13
Land account	1,225 00
	$25,576 13

A detailed classification of the expenditures will be found in the report of the General Superintendent.

Since the beginning of the work in 1893 there has been expended to date, of money raised under Park and Esplanade Loans, the sum of $1,435,020.56.

The division is as follows: —

River Parkway, Section A.		
Construction account	$154,942 52	
Land account	9,416 83	
		$164,359 35
River Parkway, Section B.		
Construction account	$93,583 40	93,583 40
River Parkway, Section C.		
Construction account	$75,461 18	
Land account	31,701 08	
		107,162 26
River Parkway, Section D.		
Construction account	$97,434 67	
Land account	95,047 25	
		192,481 92

River Parkway, Section E.		
Construction account	$935 72	
Land account	60,110 00	
		$61,045 72
River Parkway, Section F.		
Construction account	$56,468 38	
Land account	67,491 62	
		123,960 00
River Parkway, Section G.		
Construction account	$120,669 41	
Land account	86,824 82	
		207,494 23
River Parkway, Section H.		
Construction account	$13,135 30	13,135 30
Cambridge Field.		
Construction account	$127,315 28	
Land account	78,884 85	
		206,200 13
East Cambridge Embankment.		
Construction account	$87,898 88	
Land account	45,231 40	
		133,130 28
General Account.		
Construction account	$47,830 29	47,830 29
Rindge Field.		
Construction account	$11,993 22	
Land account	31,461 85	
		43,455 07
Office Expenses.		
Construction account	$14,888 13	14,888 13
Broadway Park.		
Construction account	11,635 27	11,635 27
Nursery.		
Construction account	7,687 54	7,687 54
Improvements at Rindge Field.		
Construction account	2,999 09	2,999 09
Hastings Square.		
Construction account	2,683 07	2,683 07
Baths and Lockers.		
Construction account	2,500 00	2,500 00
Winthrop Square.		
Construction account	1,866 26	1,866 26
Fort Washington.		
Construction account	929 79	929 79

Washington Elm.		
Construction account	466 98	466 98
Porter Square.		
Construction account	20 87	20 87
		$1,439,514 95
Less Park revenue for 1894 and 1896 merged into land and construction accounts		4,494 39
		$1,435,020 56

Of the whole amount of Park Loans expended to December 1, 1904, 35 per cent. has been for land and 65 per cent. for construction, as follows: —

Land account (less revenues)	$501,675 31
Construction account	933,345 25
	$1,435,020 56

Respectfully submitted,

ANDREW J. CONLIN,

JNO. E. DWYER, M. D.,
Park Commissioners.

REPORT OF THE GENERAL SUPERINTENDENT OF PARKS

CAMBRIDGE, December 1, 1904.

To the Board of Park Commissioners of the City of Cambridge:—

GENTLEMEN:—I have the honor to present my second annual report as General Superintendent of Parks, which gives a complete account of the work performed by this department under the direction of your Board during the past year, and also contains certain recommendations and suggestions for which I ask your careful consideration.

SECTION A.

(Area 9.07 acres.)

Section A extends from the south line of Main Street as widened for the approach to the new bridge, to the west line of the third street east of Massachusetts Avenue.

Seven Welsbach lights have been maintained here during the year.

The trees on this section are in a fair condition.

During the early fall, under the direction of the Bridge Commissioners, 300 lineal feet of the curved portion of sea wall was taken up and reset on a line with the straight wall up stream from the curve, making the wall straight from Harvard Bridge to Cambridge Bridge. Ballast has been placed back of wall, also filling.

The easterly end of this section should be resurfaced, as there are several dangerous places in the roadway. The extra filling for this section to conform with new approaches to Cambridge Bridge, can be obtained at a very small expense as the dumping grounds on this section are very limited. Considerable loam is needed and should be purchased at once as every year the expense is greater.

SECTION B.

(Area 19.72 acres.)

Section B extends from the west line of the third street east of Massachusetts Avenue to the west line of the fourth street west of the avenue, but does not include Massachusetts Avenue.

Four men have been employed here the greater part of the season in the care of lawns, streets and shrubbery; also during the summer months a watering cart has been employed.

The settees on this section have been repaired and painted and I would suggest that more settees be placed out next season.

The shrubbery is in good condition, but more planting should be done in the early spring.

The trees will need restaking and tying.

As stated last year the river walk is in poor shape, also the walk on the property side, — both require filling and top surfacing. The unevenness of these walks has prompted visitors to walk on the bordering turf, thereby injuring the same.

As stated last year, it would be well if the property owners were to build up their land to a corresponding grade with the adjoining park land, thus avoiding the present ragged appearance.

The catch basins have been cleaned.

The iron fence has been repaired and painted.

Twenty-six Welsbach lights have been maintained during the year.

The roadway on either side of the third and fourth lawns west of Massachusetts Avenue should be resurfaced.

There remains to be built on this section 357 feet of sea wall in order to complete the proposed plan.

There has been a call for some time for a boat landing or mooring near Harvard Bridge. Persons having boats in that vicinity were obliged to climb up and down the life ladders and over the iron fence. To satisfy this want the department, early in the summer, constructed a large float or raft twenty feet by thirty feet. An opening and gate were made in the fence about two hundred feet west of Harvard Bridge. A runway four feet wide and thirty feet long, securely braced and trussed, was constructed. One end of the runway was hinged to the capstone of the wall by iron hangers, the other end was fastened by means of eye bolts and an iron rod to the centre of the raft. With this arrangement the raft would swing in and out and rise up and down with the tide, enabling boats to land at either high or low water. To prevent an up or down stream motion of the raft, guy lines were placed from each end to the wall. For safety a light iron railing was securely fastened to either side of the runway.

This landing as constructed worked to a nicety and sprang into immediate success. Several steam and naptha launches besides numerous smaller boats were moored here during the remainder of the season.

SECTION C.

(Area 13.39 acres.)

Section C extends from the west line of the fourth street west of Massachusetts Avenue to the east line of Brookline Street but does not include the right of way of the Grand Junction Railroad.

No work of any moment has been done since the completion of the gravel contract in December, 1903. At the beginning of that work it was intended to place the gravel at such a grade that the material excavated for loam spaces would bring the roadway and walks to finished grade. As the whole amount called for in this contract was not delivered it was impossible to carry out the original idea, so that only a part of the section is ready for trees and finishing. I would reccommend that the filling necessary to finish this road be placed as soon as possible so that the loam spaces and planting may be completed.

During the year the following material has been received: — about 1,710 cubic yards of cinders at a cost of $427.57; about 1,611 cubic yards of filling at a cost of $268.13; 22.07 cubic yards of gravel at a cost of $11.04.

The final payment, amounting to $1,502.97, has been made on the gravel contract with W. B. Mullen.

SECTION D.

(Area 38.31 acres.)

Section D extends from the west line of Brookline Street to the south line of River Street.

On this section the usual work has been done on the trees, shrubs, turf covered strips, walks and roads.

Twenty-nine Welsbach lights have been maintained here, eighteen on the driveway and eleven on the island, together with three arc lights on the beach during the bathing season.

Two men have been employed here during the season.

The walks are in poor condition and should be resurfaced.

The trees show pleasing results.

During the year considerable filling has been bought at a low price.

The road at the top of the beach extending from River Street to a line of Magazine Street is in a fair way to completion.

During the season the following material has been received: — 3,611 loads of ashes at a cost of $902.75; 5,309 loads of filling at a cost of $1,327.25; and 196.8 cubic yards of loam at a cost of $98.40.

The ball field on this section has been surfaced with loam and is in fair condition for games.

The dyke needs some attention this spring, as it shows considerable settlement, owing to the spring tides.

The bathing beach is quite muddy here at times, owing to the action of the river at this point. This mud should be removed when possible to do so and the beach resurfaced.

The land bounded by Pearl, Granite, Magazine Streets and Charles River Road, could be utilized for tennis courts at a very small cost by placing over the entire surface a coating of cinders and top-surfacing the same with loam. By putting this plan into effect the present unsightly surroundings would be improved.

During the season numerous requests have been made by mothers and kindergarten teachers for a wading pool for the smaller children and we hope to have the same installed this coming year, in accordance with plans made some time ago by Olmsted Brothers.

At the bath house two police officers and the usual number of attendants were employed. The check system which was installed last year proved very satisfactory in handling large crowds of bathers. The entire force of attendants were on duty each day, from June 22 to September 19, between the hours of 9 A. M. and 10 P. M., with the exception of four hours at low tide.

The total receipts from suits, towels and lockers amounted to $1,461.15, and the estimated number of bathers was 48,570. The laundering has been done by Monk's Custom Laundry, at a cost of $1.00 per hundred pieces.

As more dressing rooms are needed, I would recommend that the men's house be extended to the women's house, as about thirty dressing rooms could be put in this additional space at a small cost to the department.

SECTION E.

(Area 1.77 acres.)

Section E extends from the north line of River Street to the south line of Western Avenue.

No construction has been done here during the year.

The old buildings on this section used for coal purposes should be removed, thus opening up a continuous drive from Mount Auburn Street to Brookline Street, including Magazine Beach known as Captain's Island. This could be done at a trifling cost, as the ground is about at grade.

SECTION F.

(Area 13.89 acres.)

Section F extends from the north line of Western Avenue to the east line of Boylston Street.

The work on this section during the year was caring for the Charles River Road, walks, planted spaces, grass plots, trees and shrubs.

Between Boylston and DeWolf Streets the road and walks have been

partially surfaced, also the ribbon strips on either side of the road have been raised to grade. Considerable loam and gravel was required on this work.

The trees on this section require early attention.

The two wharf properties on this section should be excavated, and the filling utilized for shaping the slope in the immediate vicinity.

The planting space at the top of the beach has been graded with loam between Richardson & Bacon's coal wharf and Plympton Street, also between Otter and Beaver Streets. This space is all ready for spring planting.

The Charles River Road has been sub-graded between DeWolf Street and Western Avenue at a very small cost, as considerable cinders and excavations have been received from contractors in the immediate vicinity.

The ribbon strip on the left of the road between Flagg and Stiles Streets has been completed and is ready for tree planting; also the walk back of the same has been top-surfaced. There are still some settlements in the planting space on this section which require loam surfacing, also shrubbery should be replaced.

The effect of the cold weather has in some respects been quite disastrous to plant life, and a good many varieties of trees, shrubs, vines, etc., that in the past have been considered quite hardy to our climate, have forfeited that classification in this section, and will have to be more or less discarded from use in plantings intended for permanent effect.

This section has been kept in usual good trim, as required by the prominent location and popular use, but the limited means available for maintenance and construction have restricted the execution of this work which should receive attention the coming season.

The sea wall on this section between Western Avenue and a line of Stiles Street should be built as soon as possible, as the remainder of this section could be completed at a very small cost.

The iron fence east of Boylston Street has been repaired and painted.

The following material has been received on this section: — 544 loads of filling at a cost of $54.40; about 3,677 loads of ashes at a cost of $919.35; about 5,390 loads of filling at a cost of $1,347.41; 246.4 cubic yards of gravel at a cost of $123.20; and 1,059.43 cubic yards of loam at a cost of $536.68.

SECTION G.

(Area 16.07 acres.)

Section G extends from the west line of Boylston Street to the east line of the land of the Stillman Infirmary.

The work done on this section was caring for Charles River Road, walks, planted spaces, grass plots, trees and shrubs.

As stated last year, the walks need new surfacing on account of the travel to and from the Stadium. With the exception of repaving the paved slope on old gas wharf site, there has been no new work done on this section the past year.

Twenty-six Welsbach lights have been maintained here.

Four men have been employed most of the season.

The iron fences at the top of the beach west of Boylston Street and along Mt. Auburn Street have been repaired and painted.

The beach between the Stillman Infirmary and the gas wharf needs attention as the current at this point has carried the gravel out into the river.

At the present time considerable work is being done on the paved beach.

The catch basins are in good condition for the winter season.

SECTION H.

(Area 1.44 acres.)

Section H extends from the east line of the land of the Stillman Infirmary to the Metropolitan Park taking at Gerry's Landing.

During the season the trees and grass have been cared for as usual, and the section is in very good condition.

The iron fence on this section has been repaired and painted.

The walk should be regraded with some binding material as its present uneven condition compels pedestrians to walk on the grass.

CAMBRIDGE FIELD.

(Area 12.64 acres.)

Three men were employed here a part of the season caring for the lawns, walks and shrubbery.

During the season the base-ball grounds were thoroughly overhauled. This necessitated considerable shaping and rolling; about 73.96 cubic yards of loam were received here at a cost of $48.07.

The base-ball grounds proved a continuous attraction to the sporting element and they were in use every fair day during the season, especially on Saturdays and holidays, and I regret to state that the urgent demand for seats or bleachers could not be fulfilled. I earnestly hope that sufficient appropriation will be made this year, as the people who patronize the games are made up mostly of the working classes and should be given some consideration. These bleachers could be built at a very small cost

and would be very much appreciated by those witnessing the games. Outdoor games certainly prove a large attraction and have a most beneficial, instructive, healthy and elevating influence.

The beneficial results which might be obtained through the introduction of play-grounds, gymnasia, baths, etc., in our parks, would increase their usefulness and popularity, and would clearly show that the great value of our park system is not only what its attractive features show to the eye, but also the splendid opportunities offered in the way of healthy exercise. This is especially true with reference to use of our parks by children.

During the year a number of accidents occurred to children while tilting on the seesaws, and I have been requested by parents living in the immediate vicinity to have same removed. I would recommend that the tilts be replaced by a safe circle swing.

Tennis courts and croquet grounds were laid out at the beginning of the summer and were used quite extensively.

On the children's playground a wading pool is much needed for use during the extremely hot weather and many requests have been made for same.

I would also recommend a shelter covering for the sand courts, the same to be composed of iron or steel. A structure of this kind would be of permanent use, providing shelter not only from the hot sun but also during showers, as the present shelter is inadequate. I strongly believe in the good accomplished through these playgrounds, outdoor gymnasia, etc., and believe that money expended for same is well invested.

During the year seven arc lights have been maintained, and more are required, especially during the skating season as the crowds of people on entering and leaving the field at night, trample on the planted spaces and break down the shrubbery on account of the poorly lighted condition of the field.

As stated last year numerous requests for band concerts have been made, and notwithstanding the fact that we have one of the best band stands in the City, there were no band concerts given here last season.

This field in its present condition does not call for expensive maintenance, in fact it will never be a very costly place to maintain considering its size and its great usefulness to a people who are most in need of recreation and playgrounds. The field could be greatly improved if the necessary funds were available. As was stated last year the walks need to be rolled and a coating of stone dust placed on the surface.

It is to be hoped that the Water Board will be able to furnish water to flood the field for skating purposes, as it is a well known fact that this field is one of the few skating fields where skating can be enjoyed to its

fullest extent with absolute safety. We hope that for the benefit of all and especially our school children that some plan will be adopted whereby the field can be utilized for skating purposes.

RINDGE FIELD AND NURSERY.

(Area 11.52 acres.)

One man has been constantly employed caring for the Nursery and the lawns at the Sleeper School.

About 572.8 cubic yards of loam have been received at a cost of $400.96.

In the early spring considerable regrading and shaping up was done on the play field. The swings and tilts at the rear of the field were removed and placed near the Wyman School, thus making it more convenient for the kindergarten.

As stated last year, plans and specifications were made for a Sanitary Building which it was deemed inexpedient to build at that time, but it is hoped that the same, together with a shelter, may be constructed during the coming year. I would also recommend that the construction and improvement of the field be completed the coming year, as this is a long felt want in this vicinity.

The trees and shrubs in the Nursery are in good condition.

As mentioned in the report of last year, some of the trees, and especially the oaks, will soon be too large to transplant successfully. It would be advisable to transplant these trees to Cambridge Field, as shade trees are much needed on that section.

The following inventory gives an account of the stock on hand in the Nursery: —

TREES.

Acer platanoides	107
Acer saccharum	9
Fagus ferruginea	11
Ginkgo	1
Morus	1
Platanus orientalis	21
Populus Bolleana	12
Populus fastigiata	9
Quercus rubra	280
Quercus macrocarpa	138
Salix pentandra	7
Salix Wisconsin	4
Tilia Americana	43
Ulmus Americana	121

SHRUBS.

Amorpha fruticosa	10
Andromeda floribunda	10
" japonica	3
" mariana	6
Aralia pentaphylla	60
Azalea amoena	10
Baccharis halimifolia	37
Calycanthus floridus	40
Caragana arborescens	56
Ceanothus Americana	7
Celastrus scandens	50
Cephalanthus occidentalis	20
Clethra alnifolia	240
Comptonia asplenifolia	7
Cornus alba	28
" circinata	10
" paniculata	20
" sericea	172
" siberica	5
" sanguinea	55
Crataegus oxycantha	64
Deutzia crenata	9
" gracilis	10
Diervilla rosea	4
" trifida	6
Eleagnus	—
Euonymus elatus	2
" radicans	100
Exochorda grandiflora	35
Forsythia fortuneii	120
" viridissima	100
Hibiscus (althea)	8
" moscheutos	15
Hydrangea quercifolia	60
Ilex glabra	13
" verticillata	7
Juniperus	3
Kalmia latifolia	50
Kerria japonica	100
Ligustrum ibota	26
" vulgaris	65
Lonicera brachypoda	100
" halliana	50
" morrowii	10
" tatarica alba	24
" tatarica	27
Lycium barbarum	12
Lythrum salicaria	12
Mahonia aquifolia	20

Philadelphus coronarius	35
Periploca graeca	12
Potentilla fruticosa	1
Prunus besseyi	11
" maritima	3
Rhamnus catharticus	20
Rhododendrons	40
Rhus aromatica	11
" canadensis	30
" typhina	28
Ribes aureum	30
Rosa blanda	20
" carolina	12
" multiflora	41
" rugosa	432
" setigera	8
" wichuraiana	7
Robinia hispida	8
Rubus odorata	26
Spiræa Anthony Waterer	42
" billardii	13
" bumalda	62
" Douglasi	10
" prunifolia	8
" salicifolia	80
" thunbergii	1
" Van Houteii	87
" tomentosa	138
Staphylea trifolia	33
Stephanandra flexuosa	6
Symphoricarpos racemosus	200
" vulgaris	85
Syringa vulgaris	50
Tecoma radicans	3
Tamarix africana	17
Viburnum dentatum	25
" lantana	56
" lentago	3
" opulus	16
" paniculata	11
" prunifolium	1
" tomentosa	12
Vaccinium corymbosum	10
Wistaria	5
Xanthorrhiza apiifolia	50

EAST CAMBRIDGE EMBANKMENT.

(Area 8.35 acres.)

No construction work has been performed here during the year.

Considerable filling has been received without expense to the department.

Ballast should be placed back of sea wall to protect it and allow the work of filling to continue.

The filled portion of the ground should be graded.

There is a great demand for a bathing beach in this section of the City. This work could be accomplished much cheaper this coming season than later, on account of the large bay directly back of the unfilled portion of the sea wall, requiring only an opening in the wall where slope can be made.

If this plan is carried out, this place will become one of the most popular resorts in our park system on account of the facilities for boating and bathing.

CAMBRIDGE COMMON.

The usual attention has been given to the care of the Cambridge Common, such as cutting of grass and caring for the walks.

The grass plots should be regraded with loam, as the surface water stands in several places.

Two men have been employed here almost constantly.

In the early winter a skating rink was established at considerable expense to the department, but it was not used, on account of the scarcity of water.

About 63.7 cubic yards of loam were received at a cost of $44.59.

The base-ball grounds were resurfaced with loam and rolled; also goal posts were placed on the field and the grounds were in constant use.

I would recommend that the grass, shrubs and trees on the Common be kept up to a high state of cultivation, especially the section surrounding the Soldiers' Monument, which is considered the finest piece of sculptural architecture in our City. The treatment of the grounds should be in harmony with the design of the monument. In other words, the grounds of the Cambridge Common should at least conform to the standard of the lawns of private estates surrounding same.

The gun carriages and cannon are in excellent condition, also fence surrounding monument. All the walks require resurfacing.

Many requests have been made for additional settees.

BROADWAY COMMON

The usual attention has been given to the Broadway Common, such as cutting the grass, taking care of the shrubs and walks. Considerable loam is needed to build up the shrubbery beds, also new shrubbery should be added.

As the larger portion of the walks are composed of brick, it would be advisable to have the new walks built of the same material.

The iron fence surrounding the common is in a fair condition.

The shrubbery made some headway the past year.

Several reports have been made of children walking and running on the planted spaces and grass plots, destroying the shrubbery and breaking down the wire guards. I would suggest that in order to overcome these complaints and trouble with the children, that a general playground be established on one section of the common so that the children could enjoy their games without trespassing on the planted spaces or in any way injuring the shrubbery.

A simple outdoor gymnasium and sand courts would be very much appreciated on this Common, and a number of requests have been made for same.

FORT WASHINGTON.

This old fort, with its ancient three-gun battery and flag-staff, is in excellent condition.

The usual care has been taken of the grass, walks and shrubbery.

The guns and iron fence have been painted.

During the Grand Army National Encampment held in Boston last summer, thousands of veterans visited this old fort.

WASHINGTON ELM.

The usual care has been taken of this tree of Revolutionary fame.

During the Grand Army and Episcopal Conventions multitudes of people visited this spot, and never at any one time has the tree been visited by so many strangers. To them every leaf, twig or piece of bark was precious and the citizens of Cambridge can scarcely realize the deep interest and esteem which is held for this tree by the whole American people.

During the Episcopal Convention representatives from various parts of the world paid homage to America's most famous tree.

On these occasions the tree was handsomely decorated.

The tree at present is in about the same condition as last year.

The leaves indicate considerable vitality.

The wounds have been cared for

However, it would be well to furnish the tree with a fresh supply of plant food, and I would also recommend a better supply of water. By so doing, our historic elm may continue to bear foliage for many years to come.

WINTHROP SQUARE.

During the season the usual attention has been given to the trees, shrubbery, grass plots and walks.

The fence is in very poor condition.

Considerable loam is needed for surfacing purposes.

In the early spring the grass plots should be turned over, regraded and seeded.

The walks need building up and shrubbery should be replaced.

HASTINGS SQUARE.

During the season the usual attention has been given to the trees, shrubbery, grass plots and walks.

Some settlements are noticeable in the planting spaces. The shrubbery should be replaced and the walks require new surfacing.

Numerous requests have been made for additional lights and settees.

DANA SQUARE.

The usual attention has been given to the trees, shrubbery, grass plots and walks.

New shrubbery should be added in the early spring. The turf plots should be turned over and reseeded.

The walks require shaping and new surfacing.

The fence surrounding the square has been repaired and painted.

PUBLIC SQUARES.

The little triangular spaces situated in the squares of our City are sadly neglected and should be given more thought and consideration in the beautifying and building up of our park system.

Lechmere Square, named after one Richard Lechmere, is one of the oldest and most unsightly squares in our City. This square could be greatly improved by enclosing the triangle with a durable stone coping, filling it in with loam and sodding, thus making an attractive and refreshing spot which would cost but a trifle more to maintain than the pavements now existing.

Kendall Square will in a very short time be the main approach to our new Cambridge Bridge which is considered by experts to be one of the finest structures of its kind in the world. This square should be treated in about the same way as has been suggested for Lechmere Square, in fact it should be the model square of our City and with the

proper treatment could be made as attractive as Copley Square or any square within our midst.

I would recommend that the following squares be treated in a similar manner: — Mechanic Square, situated at the junction of Broadway and Hampshire Street; Kelley Square, situated at the junction of Bridge and Gore Streets; and Porter Square, situated at the junction of Massachusetts and Somerville Avenues. These refreshing green spots in our squares would be exceedingly attractive and would not encroach upon the proper width of the roadways.

SCHOOLHOUSE GROUNDS.

With few exceptions the schoolhouse grounds are in a very delapitated condition and have been so ever since they were placed in charge of the Park Department. Complaints have been received from the School Committee and also from the janitors about the poor condition of these grounds, but until we receive an appropriation for their care nothing can be done to improve them.

From a personal observation of the different schoolhouse grounds I find that most of them are large enough to treat with grass plots, shrubbery and flowering plants, thus giving the school children some practical knowledge of botany and at the same time beautifying our schools.

There is no possible way of keeping up the beauty and good condition of our schoolhouse grounds with the limited appropriation for maintenance. This is very much to be regretted and we hope will be remedied the coming year. What better benefit could the tax payers of our City expect to derive from money expended, than the fact that it will make children not only happy but also better for their future life and more useful as citizens?

SHADE TREES.

During the year 79.56 cubic yards of loam have been received at a cost of $69.09. This has been used in the planting of new trees.

Considerably more work has been done upon shade trees this year than in former years, and is as follows: —

1,274 trees trimmed.

1,070 wire guards repaired.

282 trees planted, as follows: —

Acer platanoides . .	102
Fraxinus Americana .	53
Quercus rubra . .	10
Ulmus Americana .	117

273 new wire guards put on.

109 trees removed, as follows: —

Acer saccharum . .	34
Aesculus hippocastanum	13
Fraxinus Americana .	4
Platanus orientalis .	2
Populus candicans .	3
Tilia Americana . .	2
Ulmus Americana .	50
Ulmus campestris .	1

14 heads cut off.

There is so much to be said and done for the improvement of our shade trees that I hesitate to recommend anything, but I will mention a few facts for your consideration.

The appropriations for the care of our trees have never been sufficient to allow of a systematic treatment. This fact is to a certain extent responsible for their present condition. In the trimming of trees very little was accomplished the past year except to remove dead wood, or limbs which interfered with traffic.

Trees growing in city streets necessarily require a great deal more attention than those growing in the forests. In the streets, the water which should go into the ground to nourish the tree is carried away by macadamized streets to the sewers, so that very little surface water reaches the roots of trees on our modern streets. In placing pipes underground, such as sewer, gas or water pipes, sometimes roots are excavated and must be cut, thus injuring or destroying the tree. Leaks from gas pipes are also very injurious to the growth of our trees.

In order to have healthy trees with these drawbacks, extra care must be taken of them. When they show a lack of vigor, the cause should be ascertained and if possible remedied.

There are a number of trees in different sections of the city with dangerous dead limbs. There are also quite a number of dead trees that have been practically dead for years. These are being removed as rapidly as possible. Immediate steps should be taken to preserve some of our largest and best trees.

A great deal of trimming should be done the coming season.

The young trees planted a few years ago need resupporting.

A number of trees need wire guards

I would respectfully recommend that a force of men under the direction of a competent foreman be put to work on a systematic treatment of the trees. This could be done at a small cost to the department.

TREE PESTS.

The gypsy, brown tail and tussock moths can be controlled by a thorough campaign over the infested municipalities. The work of the different committees on tree pests has shown that the damage and annoyance from these pests can be practically eliminated by the application of thorough remedial measures over the entire infested districts.

It is greatly to be hoped that some effort to systematically control the spread of these pests may be instituted, to the end that property owners may be spared the annual visitation of the caterpillar scourge. Until then, however, eternal vigilance is the price we must pay if our trees are to be saved.

The most effectual method of destroying the brown tail moth is to remove and burn the nests. This should be done during the fall and early winter when the nests can easily be seen.

Last year the street trees, the trees in the commons and squares, and the trees on private estates were systematically cleaned, with the result that less injury has been done to the foliage and fewer complaints received. This, however, does not signify that we have exterminated the moths; on the contrary the condition of the trees at the present time indicate the presence of a large number of nests and the work of extermination should begin early.

In the case of the brown tail moth, action looking to the prevention of damage by the caterpillars is of more importance than the application of remedies after the insects have commenced feeding. With this insect the traditional "ounce of prevention" is worth many pounds of cure.

For nearly six months, or generally speaking from the first of October to the first of April, these insects are massed together within their silken winter webs. These webs are attached to the tips of the twigs, are grayish-white in color, and easily seen when the foliage has fallen from the trees.

In the case of either fruit or shade trees of ordinary size, nothing is easier than to cut off and burn the webs. At the present time a small gang of men are at work on the trees and a great many more are needed in order to check the ravages of these pests.

Wherever the gypsy and tussock moths are found, the egg clusters are painted with cresote. During the fall, 4,586 street trees have been treated in this way and the trees on private property should receive immediate attention.

It is to be hoped that our City Government will appropriate sufficient funds to enable us to carry out the work of the extermination of all tree pests.

OUTDOOR PUBLIC GYMNASIA.

To the healthy boy and girl exercise is always attractive, it is also helpful and strengthening. The practice of gymnastics develops the muscles, tones the system and yields toughening sinews in place of debilitating fat; the gymnasium is the means to this end, its simple and complicated appliances alike affording that opportunity for the systematic development that modern gymnastics aim to secure.

Fresh air is the chief tonic. An outdoor gymnasium, where such is possible, is much better for acquiring muscle and sinew, strength and health, than an indoor one.

Realizing the fact that this rests within the power of the City Council of our City, it is to be hoped that they will give this the consideration it deserves.

The city of Boston instituted as an experiment the Charlesbank Gymnasium, an open-air gymnasium, fitting same with appliances that give the best exercise, namely,— chest weights, pulleys, parallel bars, horizontal bars, climbing poles, vaulting poles, giant strides, jumping boxes, perpendicular and inclined ladders, rope and Jacob ladders, flying wings, inclined and perpendicular poles, trapeze breast bars, balancing swings, etc. The result of this experiment attracted so much attention that it became necessary to construct gymnasia in nearly every ward in Boston.

The success of the city of Boston's outdoor gymnasia should lead to the adoption of the same system in our City. We have an excellent site for the construction of an outdoor gymnasium on Cambridge Field, as there is plenty of area inside the track for the erection of suitable apparatus. It is to be hoped that the City Council will appropriate sufficient funds to construct same and give the City at least one complete outdoor gymnasium. It would be nothing experimental and would be fully appreciated, as the requests, yes, even demands, are so great that it is surprising that our City Government has not taken some means to provide something on the lines mentioned before this. As stated in report of last year, give the people what they need and what they want, what every progressive city in the country has already, or is in the act of giving, public gymnasia,— Outdoor Public Gymnasia.

THE YEAR'S EXPENDITURES.

The expenses of the department for the year are shown in the following summary of the departmental accounts: —

PARK LOANS.

(Lands and Construction.)

Amount of unused balance of 1903 appropriation reappropriated December 3, 1903		$9,245 99
Amount appropriated February 25, 1904		15,754 01
Amount appropriated October 19, 1904		6,000 00
		$31,000 00

EXPENDED.

River Parkway, Section A.			
Examination of title	$15 00		
Engineering	11 00		
		$26 00	
River Parkway, Section B.			
Pay roll	$1,656 10		
Construction of float	587 24		
Street watering	340 00		
Engineering	112 87		
Hardware	17 31		
Repairing watering cart	5 50		
Recording license and plan	1 67		
Advertising	58		
		$2,721 27	
River Parkway, Section C.			
Gravel	$1,514 01		
Pay roll	998 25		
Cinders	427 57		
Engineering	397 26		
Filling	268 13		
Advertising and printing	11 60		
Teaming	10 00		
		$3,626 82	
River Parkway, Section D.			
Filling	$1,327 25		
Pay roll	994 90		
Ashes	902 75		
Engineering	497 13		
Dredging	300 00		
Street watering	190 40		
Constructing box drains	124 88		
Loam	98 40		
Turning water off and on	1 00		
		$4,436 71	
Amounts carried forward		$10,810 80	$31,000 00

Amounts brought forward		$10,810 80	$31,000 00
River Parkway, Section F.			
Pay roll	$2,987 30		
Filling	1,401 81		
Ashes	919 35		
Loam	536 68		
Engineering	420 75		
Gravel	123 20		
Teaming	14 50		
Stakes for engineers	10 25		
Repairing garden hydrants . . .	8 51		
		$6,422 35	
River Parkway, Section G.			
Land damages	$1,200 00		
Examination of title	10 00		
		$1,210 00	
Rindge Field.			
Pay roll	$1,290 09		
Loam	400 96		
Drainage system	86 94		
Engineering	56 24		
		$1,834 23	
Nursery.			
Pay roll	$744 00		
Trees	140 13		
Shrubs	12 50		
Stove pipe	3 75		
Coal	3 38		
Hardware	3 36		
Express	1 10		
		$908 22	
East Cambridge Embankment.			
Charges for displacement of mud . .	$400 00	$400 00	
General Account.			
Salary of General Superintendent . .	$1,500 00		
Rent of stable	270 00		
Pay roll	176 00		
Car tickets	175 00		
Hay and grain	136 66		
Repairing carriage	125 25		
Printing and binding reports of 1903; also half tones for same	106 42		
Lumber and stakes (skating rink) . .	69 99		
Shoeing horse	56 50		
Carriage hire	53 00		
Repairing and reupholstering chairs .	45 00		
Loam (skating rink)	44 59		
Engineering	24 25		
Amounts carried forward	$2,782 66	$21,585 60	$31,000 00

Amounts brought forward	$2,782 66	$21,585 60	$31,000 00
Tools and hardware	21 00		
Printing and stock	16 50		
Miscellaneous supplies for stable	12 90		
Water rates, stable	11 50		
Entertaining at Colonial Club	7 20		
Steel tape for Superintendent	5 91		
Photographic supplies	3 07		
Envelopes for reports	3 00		
Repairing harness	1 00		
Express	15		
		$2,864 89	
Office Expenses.			
Pay roll	$814 00		
Telephone service	124 47		
Stationery and printing	50 92		
Atlas of Massachusetts	25 00		
Stamped envelopes	23 00		
Postage stamps	22 00		
Collection books	15 50		
Pay roll book	13 75		
Tree order book	10 50		
Journal and ledger	10 00		
Repairing typewriter	10 00		
Cambridge Directory	3 50		
Rubber stamp	1 75		
Express	1 25		
		$1,125 64	
Total			$25,576 13
Balance unexpended			$5.423 87

PARK MAINTENANCE.

Brown Tail Moth Extermination.		
Amount appropriated January 28, 1904		$2,500 00
Amount appropriated February 25, 1904		1,200 00
Amount appropriated March 10, 1904		500 00
Amount appropriated March 17,1904		1,000 00
Amount appropriated April 15, 1904		500 00
Amount appropriated September 21,1904		1,000 00
		$6,700 00
EXPENDED.		
Pay roll	$6,279 99	
Ladders	105 30	
Use of horse and wagon	70 50	
Spray pump	65 00	
Creosote	55 75	
Tools and hardware	49 93	
Amounts carried forward	$6,626 47	$6,700 00

Amounts brought forward	$6,626 47	$6,700 00
Printing and stock	33 00	
Lumber (repairing tools)	21 30	
Disparene	12 25	
Express	3 05	
Repairing bicycle	2 00	
Kerosene oil	1 50	
Total		$6,699 57
Balance unexpended		$0 43

Cambridge Field and Shelter.

Amount appropriated February 25, 1904	$6,000 00
Amount transferred to Police Department September 15, 1904	600 00
	$5,400 00

EXPENDED.

Pay roll	$3,670 03	
Lighting	727 26	
Coal	303 75	
Plumbing	299 88	
Laying floor in locker room	100 00	
Teaming	67 50	
Fence stakes	60 00	
Loam	48 07	
Rolling field	43 50	
Toilet paper	18 00	
Miscellaneous supplies	14 93	
Laundering towels	10 10	
Netting for back stop	8 40	
Lumber for back stop	7 07	
Miscellaneous repairs	5 60	
Towels	5 40	
Stakes for engineers	4 50	
Repairing drinking fountain	3 45	
Lime (marking tennis courts)	1 10	
Express	60	
Total		$5,399 14
Balance unexpended		$0 86

Commons, Squares and Public Grounds.

Amount appropriated February 25, 1904	$5,000 00

EXPENDED.

Pay roll	$4,154 27	
Lighting	357 00	
Housing topmasts and repairing flag poles	128 50	
Amounts carried forward	$4,639 77	$5,000 00

Amounts brought forward	$4,639 77	$5,000 00
Assorted plants	66 00	
Fence stakes	60 00	
Teaming	53 75	
Bulbs	51 85	
Planting beds at City Hall	32 00	
Tools and hardware	30 97	
Grass seed	27 00	
Pipe posts	20 00	
Lawn mower fixings	7 81	
Rolling Cambridge Common	7 25	
Repairing fence, Fort Washington	2 00	
Turning water off and on	1 00	
Express	50	
Total		$4,999 90
Balance unexpended		$0 10

Shade Trees.

Amount appropriated February 25, 1904 . . . . . $5,000 00

EXPENDED.

Pay roll	$4,347 90	
Trees	170 00	
Tree poles	140 84	
Teaming	130 76	
Loam	69 09	
Engineering	57 75	
Tools and hardware	26 34	
Sharpening saws	17 00	
Hose for tying trees	11 00	
Printing and stock	10 00	
Repairing bicycle	7 50	
Rope	5 62	
Medical services (man injured by tree)	2 00	
Repairing sidewalk	1 65	
Kerosene oil	1 20	
Repairing wagon	1 05	
Total		$4,999 70
Balance unexpended		$0 30

Sections G and H.

Amount appropriated February 25, 1904 . . . . . $3,300 00

EXPENDED.

Pay roll	$2,390 77	
Lighting	808 33	
Lawn mowers	30 78	
Amounts carried forward	$3,229 88	$3,300 00

Amounts brought forward	$3,229 88	$3,300 00
Teaming	27 13	
Garden hose	24 00	
Hardware	16 34	
Garden line	75	
Total		$3,298 10
Balance unexpended		$1 90

Sections A, B, D, F and Rindge Field.

Amount appropriated February 25, 1904	$3,200 00
Amount transferred to Police Department September 15, 1904	500 00
	$2,700 00

EXPENDED.

Section A.			
Lighting		$220 75	
Section B.			
Lighting		805 18	
Section D.			
Lighting		722 37	
Section F.			
Lighting		309 61	
Rindge Field.			
Pay roll	$294 55		
Lighting	261 10		
Tools and hardware	65 89		
Rolling field	7 25		
Engineering	5 50		
Bases for field	5 40		
Repairing watering system	2 11		
		641 80	
Total			$2,699 71
Balance unexpended			$0 29

Bath House.

Amount appropriated February 25, 1904	$2,200 00
Amount transferred to Police Department September 15, 1904	500 00
	$1,700 00

EXPENDED.

Pay roll	$1,326 42	
Laundering towels	115 57	
Bathing suits	87 44	
Garden hose	30 00	
Amounts carried forward	$1,559 43	$1,700 00

Amounts brought forward	$1,559 43	$1,700 00
Disinfectant	27 10	
Medical services	20 00	
Repairing boat	18 27	
Hardware	18 16	
Printing and stock	17 00	
Miscellaneous supplies	15 23	
Flag	10 50	
Telephone service	6 84	
Kerosene oil	1 80	
Keys and repairing locks	1 50	
Repairing gutters	47	
Total		$1,696 30
Balance unexpended		$3 70

General Account.

Amount appropriated February 25, 1904 . $600 00

EXPENDED.

Rent of stable	$270 00	
Hay and grain	136 79	
Tools and hardware	33 12	
Coal	27 00	
Badges for Commissioners and Superintendent	25 00	
Decorating Soldiers' Monument	20 00	
Slats for settees	19 62	
Shoeing horse	16 42	
Lighting stable	10 74	
Miscellaneous supplies for stable	10 35	
Printing and stock	8 50	
Repairing watering cart	6 98	
Carriage robe and whip	6 25	
Rubber boots	3 00	
Repairing harness	1 95	
Repairing wagon	1 92	
Kerosene oil	1 50	
Advertising	60	
Express	25	
Total		$599 99
Balance unexpended		$0 01

Respectfully submitted,

JAMES A. MONTGOMERY,
General Superintendent of Parks.

ANNUAL REPORT OF THE CITY AUDITOR

City Auditor's Office,
Cambridge, December 1, 1904.

To the Honorable, the City Council: —

The undersigned herewith presents the annual statement of the receipts and disbursements of the City of Cambridge for the fiscal year beginning on the first day of December, 1903, and ending on the thirtieth day of November, 1904.

The first part of this report is devoted to an exhibit of the receipts and expenditures of the City arranged upon the Schedules for Uniform Municipal Accounting recommended by the National Municipal League. Following these schedules are the usual matters presented in the City Auditor's report including a schedule of the City property.

Respectfully submitted,

HARRY T. UPHAM,
City Auditor.

REPORT OF CITY AUDITOR

For Year Ending November 30, 1904.

SCHEDULE A–I.

Receipts and Disbursements of the Fiscal Year.

CONSOLIDATED STATEMENT.

Cash Balance at beginning of the year		$92,128 97
Actual Receipts* during the year	$3,416,958 67	
Actual Disbursements* during the year	3,322,141 38	
Excess of Receipts		94,817 29
Cash Balance at end of the year		$186,946 26

*Omitting duplications, which are set up separately in Schedules A–II. and A–VI.

SCHEDULE A–II.

General Exhibit of Receipts and Expenditures of the Fiscal Year.

Separated under the four heads, "Ordinary," "Extraordinary," "Trust Funds," and "Temporary Accounts."

	Receipts.	Expenditures.
Ordinary. (Operation and maintenance)..... (For details see Schedule A–III.)	$2,512,758 16	$2,600,082 05
Extraordinary. (Construction, &c.)..... (For details see Schedule A–III.)	902,304 61	720,163 43
Trust Funds..... (For details see Schedule A–V.)	1,895 90	1,895 90
Total Actual Cash Transactions of the Year. (Omitting duplications)..... (Per Schedule A–I.)	$3,416,958 67	$3,322,141 38
Temporary Accounts. (Duplications)..... (For details see Schedule A–VI.)	1,056,445 18	1,056,445 18
Total transactions, per City Auditor's books.....	$4,473,403 85	$4,378,586 56

Ordinary has relation only to the current revenues and "running expenses" (operation and maintenance), and does not include receipts or payments on account of loans, nor on account of permanent construction or other capital accounts.

Extraordinary has no relation to current revenue or running expenses, but does include receipts and payments on account of loans, and for permanent construction and other capital accounts.

Trust Funds include all receipts and payments of the City when acting as trustee or as agent for funds, trusts, special deposits, etc , which cannot be used except for particular and specified purposes.

Temporary Accounts include all receipts and payments of the City which are simply journal items, duplications, or items paid in, temporarily held and paid out again, and must give the same figures for both receipts and expenditures.

ACTUAL FINANCIAL RESULT OF THE OPERATION AND MAINTENANCE OF THE CITY FOR THE YEAR.

Ordinary Receipts, as above, from taxation and other sources, not including money borrowed.....	$2,512,758 16
Ordinary Expenditures, as above, for operation and maintenance (running expenses).....	2,600,082 05
Excess of Ordinary Expenditures for the year.....	$87,323 89

(Excess of Extraordinary Receipts, $182,141.18.)

SCHEDULE A–III.

Exhibit of Receipts and Expenditures for the Year, Ordinary and Extraordinary, Grouped According to Functions.

ORDINARY.*

	Receipts.	Expenditures.
General Government	$6,891 97	$108,704 81
Protection of Life, Health and Property	19,521 14	314,015 29
Public Charity and Correction	22,702 34	76,771 06
Public Ways and Wastes	16,232 36	493,426 39
Public Industries and Investments	353,855 88	105,137 03
Public Education	8,594 03	514,904 32
Public Art and Recreation	5,128 89	71,649 34
Public Indebtedness. (Transactions during the year)	7,022 50	329,920 08
Public Interest	15,804 45	356,521 37
Public Taxation	2,109,448 61	298,477 54
Special Assessments. (Street Betterments, etc.)	17,001 17	.....
Unclassified	.....	.....
Total of Ordinary (per Schedule A–II.)	$2,582,203 34	$2,669,527 23
Less Service Transfers, Rebates and Refunds	69,445 18	69,445 18
	$2,512,758 16	$2,600,082 05

EXTRAORDINARY.*

	Receipts.	Expenditures.
General Government	.....	.....
Protection of Life, Health and Property	$4,237 00	$17,657 54
Public Charity and Correction	.....	.....
Public Ways and Wastes	40,000 00	584,787 79
Public Industries and Investments	9,115 89	21,851 98
Public Education	.....	70,289 99
Public Art and Recreation	.....	25,576 13
Public Indebtedness. (Transactions during the year)	827,500 00	.....
Public Interest	.....	.....
Public Taxation	.....	.....
Special Assessments. (Street Betterments, etc.)	21,451 72	.....
Unclassified	.....	.....
Total of Extraordinary (per Schedule A–II.)	$902,304 61	$720,163 43

* For Details see Schedule A–IV.

SCHEDULE A–IV.

EXHIBIT OF RECEIPTS, APPROPRIATIONS AND EXPENDITURES, DIVIDED INTO ORDINARY AND EXTRAORDINARY, AND ARRANGED BY DEPARTMENTS AND DIVISIONS, WHICH ARE GROUPED ACCORDING TO THEIR FUNCTIONS AS IN THE PRECEDING SCHEDULE.

1. GENERAL GOVERNMENT.

	Receipts.*		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
1.1 Mayor's Department			$5,900 00	$5,894 15	
1.2 Councils:					
City Messenger's Department			1,776 00	1,759 31	
Clerk of Committees			3,750 00	3,727 50	
City Council Expenses			4,900 00	4,738 85	
City Clerk's Department	$1,216 98		8,248 00	8,234 71	
	$1,216 98			$18,460 37	
1.3 Law Department	500 00		5,000 00	4,963 17	
1.4 Finance:					
Auditing Department			4,400 00	4,278 75	
Assessors' Department	5 00		16,140 13	16,107 64	
Treasurer's (and Collector)	2,430 81		16,100 00	16,045 63	
Sinking Fund Officials			365 00	365 00	
	$2,435 81			$36,797 02	
1.5 Elections:					
Election Expenses, City Clerk			9,800 00	9,693 28	
" Registrars of Voters			4,500 00	4,453 08	
" Sup't B'ld'gs			2,400 00	2,393 75	
				$16,540 11	
1.6 City Hall:					
City Building Account	1,265 00		24,730 00	24,650 36	
1.7 Miscellaneous:					
Postage and Stat'ry, Messenger	1,426 03		1,400 00	1,399 63	
Paige's History	21 00				
Proprietor's Records	1 00				
Plumbing Ordinances	1 65				
Sundries	24 50				
	$1,474 18				
Total General Government	$6,891 97			$108,704 81	

*These receipts have been entered in all the schedules under the department title in which they originate, although they are not placed to the credit of these departments, but are placed in the general treasury as income for general appropriations.

SCHEDULE A–IV. — *Continued.*

2. PROTECTION OF LIFE, HEALTH AND PROPERTY.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
2.1 Police Department	$1,281 83		$143,350 00	$143,271 60	
2.2 Fire Department:					
Salaries and General Expenses.	245 00		96,575 00	96,515 55	
New Engine House, Ward 10			30,000 00		$17,622 54
2.2a Fire and Police Telegraph:					
Electrical Department — Wire Account	110 35		13,500 00	13,460 41	
2.3 Courts:					
Fines — Police Department	4,386 10				
2.4 Health Department:					
Salaries and General Expenses.			21,225 00	21,143 36	
Small-pox Hospital			880 00	870 82	
Diphtheria Hospital			8,290 00	8,194 22	
Land for Hospital			6,500 00		35 00
Commonwealth of Mass., etc.	2,068 36				
Inspector of Milk and Vinegar.			1,675 00	1,661 72	
Inspector of Animals			800 00	769 64	
	$2,068 36			$32,639 76	$35 00
2.5 Cemeteries and Crematories:					
Salaries and General Expenses.			18,200 00	18,078 82	
From Burials, etc	10,599 53				
Sales of Lands and Lots		$4,237 00			
	$10,599 53	$4,237 00		$18,078 82	
2.6 Inspectors:					
Superintendent of Buildings			6,720 00	6,718 96	
Plumbers' Examiners Dept.			100 00	87 80	
Sealer of Weights and Measures	829 97		2,400 00	2,274 77	
	$829 97			$9,081 53	
2.7 Militia and Armories:					
Armory, Beech Street			125 00	124 81	
Rifle Range			555 00	543 50	
Car Tickets to and from Rifle Range			300 00	299 31	
Commonwealth of Mass.					
				$967 62	
2.8 Miscellaneous:					
Total Protection Life, Health and Property	$19,521 14	$4,237 00		$314,015 29	$17,657 54

SCHEDULE A–IV. — *Continued.*

3. PUBLIC CHARITY AND CORRECTION.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
3.1 Hospitals:					
3.2 Insane:					
Outside Aid — Care of Insane ..	.....	.....	.....	$8,112 24	.....
3.3 Houses for Children, Aged, Deaf, Dumb, Blind, etc.:					
3.4 Almshouses:					
City Farm.....	$4,286 47	.....	$5,000 00	4,957 25	.....
City Home	1,039 01	.....	19,300 00	19,293 11	.....
	$5,325 48			$24,250 36	
3.5 Out-door Relief:					
Salaries.....	.....	.....	2,755 00	2,755 00	.....
General Expenses (less Care of Insane).....	2,340 36	.....	22,610 00	14,496 14	.....
City Physician.....	.....	.....	1,500 00	1,500 00	.....
	$2,340 36			$18,751 14	
3.6 Lodging Houses:					
3.7 Prisons and Reformatories:					
3.8 Workhouses:					
3.9 Miscellaneous:					
State Aid — Soldiers' Relief	15,036 50	.....	25,675 00	25,657 32	.....
Total Public Charity and Correction	$22,702 34			$76,771 06	

SCHEDULE A–IV. — *Continued.*

4, PUBLIC WAYS AND WASTES.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
4.1 Administration:					
Engineering Department			$10,200 00	$9,624 92	
Salaries — Superintendent of Streets and clerks			4,250 00	4,237 34	
				$13,862 26	
4.2 Opening, Grading and Widening Streets:					
Grade Crossings		$40,000 00	43,065 00		$43,065 00
Land Damages			9,634 45		6,193 35
Street Construction			46,731 65		46,250 65
Board of Survey			175 00	174 00	
		$40,000 00		$174 00	$95,509 00
4.3 Street Paving:					
Rebuilding Streets			56,480 56	56,467 84	
Maintenance	$1,329 27		70,000 00	69,993 13	
				$126,460 97	
4.4 Sidewalks:					
Paving — Edgestones and Sidewalks	1,011 01		30,000 00		29,999 13
Paving — Crossings and Repairs			10,000 00	9,997 18	
4.5 Street Lighting:					
Electrical Department — Street Lighting	100 00		76,950 00	76,787 97	
4.6 Street Cleaning:					
Street Cleaning Division			31,000 00	30,999 43	
4.7 Snow Removal			18,000 00	17,999 07	
4.8 Street Sprinkling:					
Street Watering	1,611 55		28,000 00	28,000 00	
4.9 Refuse Collection and Disposal:					
Overseers of Poor — House Offal	11,729 75		31,050 00	31,011 64	
Collection of Ashes			32,100 00	32,096 98	
				$63,108 62	

SCHEDULE A–IV.— *Continued.*

4. PUBLIC WAYS AND WASTES.—Concluded.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
4.10 Sewers and Sewage Disposal:					
Sewer Department — Construction	.....	.....	$51,500 00	.....	$49,555 00
Sewer Department — Improved Sewerage	.....	.....	47,027 11	.....	35,730 95
Sewer Department — Maintenance	$70 36	.....	18,000 00	$17,520 11	.....
Sewer Department — Separate System of Drainage	.....	.....	25,000 00	.....	19,551 26
Metropolitan Sewer Tax	.....	.....	.....	86,891 58	.....
	$70 36			$104,411 69	$104,837 21
4.11 Rivers, Harbors and Waterways:					
4.12 Bridges:					
Boston Bridges	380 42	.....	17,100 00	16,794 63	.....
Cambridge Bridge	.....	.....	451,969 22	.....	354,442 45
Bridges — Street Department	.....	.....	3,100 00	3,097 77	.....
	$380 42			$19,892 40	$354,442 45
4.13 Miscellaneous:					
Damages to persons and personal property	.....	.....	2,000 00	1,487 93	.....
Civil Service Department	.....	.....	250 00	244 87	.....
				$1,732 80	
Total Public Ways and Wastes	$16,232 36	$40,000 00		$493,426 39	$584,787 79

SCHEDULE A–IV. — *Continued.*

5. PUBLIC INDUSTRIES AND INVESTMENTS.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
5.1 Water Works:					
Construction	.....	$2,145 64	$34,217 82	.....	*$21,851 98
Maintenance	.....	.....	100,027 08	$97,845 40	.....
Rates	$346,320 14	.....	.....	.....	.....
Miscellaneous	5,362 29	.....	.....	.....	.....
Refunds and Abatements	.....	.....	7,500 00	7,291 63	.....
	$351,682 43	$2,145 64		$105,137 03	$21,851 98
5.2 Gas Works:					
5.3 Electric Light and Power Plants:					
5.4 Municipal Heating Plants:					
5.5 Municipal Street Railways:					
5.6 Transit Subways:					
5.7 Subways for Pipes and Wires:					
5.8 Markets:					
5.9 Docks and Wharves:					
5.10 City Real Estate:					
Rents	2,173 45	.....	.....	.....	.....
Sales:—					
Dunster Schoolhouse	.....	6,415 25	.....	.....	.....
Dana Schoolhouse	.....	120 00	.....	.....	.....
Old Buildings	.....	135 00	.....	.....	.....
Lot on Walden Street	.....	300 00	.....	.....	.....
	$2,173 45	$6,970 25			
5.11 Stocks, Bonds and Investments:					
5.12 Other Investments:					
5.13 Miscellaneous:					
Total Public Industries and Investments	$353,855 88	$9,115 89		$105,137 03	$21,851 98

* An Extraordinary expenditure from Ordinary income.

SCHEDULE A–IV. — *Continued.*

6. PUBLIC EDUCATION.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
6.1 Schools:					
Tuition, etc	$7,026 74				
Salaries: Janitors and others			$36,750 00	$36,739 11	
General Expenses	317 86		51,600 00	51,591 60	
Permanent Repairs			6,000 00	5,999 15	
Addition to Rindge Manual Training Schoolhouse			7,170 00		$7,144 98
New Schoolhouse "Fletcher"			48,974 65		48,973 55
New Schoolhouse "Washington"			4,698 05		4,698 05
New Schoolhouse "Kelley"			984 47		789 87
New Schoolhouse "Houghton"			100,000 00		8,311 75
Care of Truants			2,225 00	2,184 43	
Flags			150 00	105 60	
Incidentals			1,975 00	1,942 32	
Salaries, Teachers and Officers			365,250 00	365,035 39	
Text Books and Supplies	633 14		28,550 00	28,538 27	
Transportation			325 00	321 00	
Vacation Schools			2,000 00	1,957 43	
	$7,977 74			$494,414 30	$69,918 20
6.2 Libraries:					
Main Library			18,700 00	18,690 93	
East Cambridge Branch			1,800 00	1,799 09	
Library Addition			371 79		371 79
Fines	616 29				
	$616 29			$20,490 02	$371 79
6.3 Other Education:					
6.4 Miscellaneous:					
Total Public Education	$8,594 03			$514,904 32	$70,289 99

SCHEDULE A–IV. — *Continued.*

7. PUBLIC ART AND RECREATION.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
7.1 Museums and Art Galleries:					
7.2 Parks:					
Metropolitan Park Tax				$38,064 53	
Construction Account	$2,137 60		$31,000 00		$25,576 13
Commons, Squares and Public Grounds			5,000 00	4,999 90	
Cambridge Field and Shelter			5,400 00	5,399 14	
General Account	1,530 14		600 00	599 99	
Sections A, B, D, F and Rindge Field			2,700 00	2,699 71	
Brown Tail Moth Extermination			6,700 00	6,699 57	
Sections G and H			3,300 00	3,298 10	
Shade Trees			5,000 00	4,999 70	
	$3,667 74			$66,760 64	$25,576 13
7.3 Baths:					
Park Department, Maintenance.	1,461 15		1,700 00	1,696 30	
7.4 Celebrations:					
Fourth of July			1,700 00	1,692 40	
Labor Day			400 00	400 00	
Memorial Day			1,100 00	1,100 00	
				$3,192 40	
7.5 Miscellaneous:					
Total Public Art and Recreation	$5,128 89			$71,649 34	$25,576 13

SCHEDULE A–IV. — *Continued.*

8. PUBLIC INDEBTEDNESS. (Transactions during the Year.)

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
8.1 Receipts from Loans, not including temporary tax loans:					
Cambridge Bridge		$450,000 00			
Building		36,000 00			
Parks		31,000 00			
Schoolhouse		100,000 00			
Sewer		117,000 00			
Street		65,500 00			
Charles River Dam		28,000 00			
		$827,500 00			
8.2 Payments to Sinking Funds:					
Park			$22,973 33	$22,973 33	
Cambridge Bridge			8,000 00	8,000 00	
Clay Lands			5,335 00	5,335 00	
General			104,408 25	104,408 25	
Harvard Bridge			8,800 00	8,800 00	
Improved Sewerage			6,644 00	6,644 00	
Water			121,522 50	121,522 50	
Hospital			225 00	225 00	
Metropolitan Park Assessment			1,012 00	1,012 00	
				$278,920 08	
8.3 Direct Payment of Matured Debt: (Not from sinking funds, but from tax levy direct.)			51,000 00	51,000 00	
8.4 Floating Debt Transactions:					
8.5 Miscellaneous:					
Premium Account	$7,022 50				
Total transactions concerning Public Debt	$7,022 50	$827,500 00		$329,920 08	

SCHEDULE A–IV.—*Continued.*

9. PUBLIC INTEREST.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
9.1 Interest upon Funds on Deposit:					
Interest on Bank Deposits.....	$3,727 80	.....	.....	.....	.....
9.2 Interest upon Delinquent Taxes, etc.:					
Interest on Sewer Assessments	15 85	.....	.....	.....	.....
Interest on Sidewalk Assess'ts	76 67	.....	.....	.....	.....
Interest on Overdue Taxes.....	10,854 52	.....	.....	.....	.....
Interest on Betterments.....	10 25	.....	.....	.....	.....
	$10,957 29				
9.3 Payment of Interest upon Debt:					
Upon Funded Debt.....	.....	.....	$167,814 00	$167,736 50	.....
Upon Temporary Tax Loans.	.....	.....	10,000 00	8,548 37	.....
Upon Park Loans.....	.....	.....	52,790 00	52,610 00	.....
Upon Water Loans.....	.....	.....	134,206 50	126,126 50	.....
				$355,021 37	
9.4 Miscellaneous Interest:					
Interest on Trust Funds.....	.....	.....	1,500 00	1,500 00	.....
Accrued Interest.....	1,119 36	.....	.....	....	.....
Total interest.....	$15,804 45			$356,521 37	

SCHEDULE A–IV. — *Continued.*

10. TAXATION.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
10.1 Real Property Taxes:					
Taxes, 1904	1,507,729 03				
Other Years	423,928 96				
Abatements, etc.				$46,771 14	
Refund of Excess Taxes				8,486 96	
Invalid Tax Titles				110 44	
	1,931,657 99			$55,368 54	
10.2 Personal Property Taxes: (Taxes on Personal Property included in 10.1).					
10.3 Poll Taxes: (Included in 10.1).					
10.4 Other Taxes (except Franchise taxes):					
Corporation Tax	79,818 58				
Bank Tax	16,961 25			6,650 66	
	$96,779 83				
10.5 Liquor Licenses	59 00			14 75	
10.6 Other Licenses:					
Auctioneers'	42 00				
Fireworks	106 00				
Intelligence Offices	62 00				
Junk Collectors	664 00				
Marriage	551 50				
Milk	161 00				
Minors'	150 85				
Dogs	4,752 38				
Plumbers'	34 50				
Hawkers' and Pedlers'	525 00				
Pool, Billiard and Bowling Alley	76 00				
Pedlers'	116 00				
Slaughtering	1 00				
Wagon, Carriage and Drivers	229 00				
	$7,471 23				
10.7 Franchise Taxes (Ordinary):					
Street Railway Tax	73,480 56				
10.8 Franchise Rights (Extraordinary):					
10.9 Miscellaneous:					
Lien Account Tax				44 01	
State Tax				80,775 00	
County Tax				109,201 21	
Armory Tax				10,445 68	
Charles River Dam				28,000 00	
Grade Crossing				7,977 69	
				$236,443 59	
Total Taxation	2,109,448 61			$298,477 54	

SCHEDULE A–IV. — *Continued.*

11. SPECIAL ASSESSMENTS.

	Cash Receipts.		Appropriations.	Cash Expenditures.*	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
11.1 Assessments for Laying Out, Opening and Widening Streets:					
Betterments — Streets ..	.....	$493 70	.....	.....	.....
11.2 Assessments for Paving Streets:					
11.3 Assessments for Sidewalks	.....	18,699 42	.....	.....	.....
11.4 Assessments for Street Cleaning:					
11.5 Assessments for Street Sprinkling ..	$17,001 17	....	.....	.....	.....
11.6 Assessments for Street Lighting:					
11.7 Assessments for Garbage Collection, etc.:					
11.8 Assessments for Sewers	.....	2,258 60	.....	.....	.....
11.9 Assessments for Parks:					
11.10 Other Special Assessments:					
Total Special Assessments ..	$17,001 17	$21,451 72			
GRAND TOTALS OF SCHEDULE A–IV.....	$2,582,203 34	$902,304 61		$2,669,527 23	$720,163 43

* Expenditures are included in "Streets," etc., under Nos. 4.1, 4.2, etc.

SCHEDULE A–v.

TRUST FUNDS, ETC.

Capital Account Transactions.

Funds.	Receipts.	Expenditures.
Cemetery Fund.....	$1,895 90	$1,895 90

Income Account Transactions: None.

Grand Total Income and Capital Transactions of Trust Funds, Etc., (per Schedule A-II.).....	$1,895 90	$1,895 90

SCHEDULE A–VI.

TEMPORARY ACCOUNTS.

	RECEIPTS.	EXPENDITURES.
1. Temporary Tax Loans	$550,000 00	$550,000 00
2. Transfers	6,785 01	6,785 01
3. Payments from Sinking Funds into Treasury and from Treasury to Redeem Matured Bonds	437,000 00	437,000 00
4. Rebates and Refunds*	62,660 17	62,660 17
TOTAL TEMPORARY ACCOUNTS (per Schedule A-II.)	$1,056,445 18	$1,056,445 18

* Included under 5.1, 10.1, etc.

SCHEDULE A–VII.

A Tabulated Budgetary Statement of the Finances of all the Departments.

Departments.	No. in Schedule A-IV.	Credits.				Debits.	Balances and Transfers				
		Revenue of the year carried to the credit of the Dept	Appropriation by the City Council.	Additional appropriations (if any).	Total credits (not including transfers).	Expenditures of the year.	Surplus of credits.	Deficiency of credits.	Transfers from this Dept. (charges).	Transfers to this Dept. (credits).	Amount carried to General Treasury.
General Government.											
Mayor's Department	1.1										
Salaries and Clerical Assistance			$5,480 00		$5,480 00	$5,480 00					
Other Expenses			420 00		420 00	414 15	$5 85				$5 85
Councils	1.2										
City Messenger, Salaries			1,476 00		1,476 00	1,559 31		$83 31		$100 00	16 69
" " Other Expenses			200 00		200 00	200 00					
Clerk of Committees, Salaries			3,300 00		3,300 00	3,333 00		33 00		50 00	17 00
" " Other Expenses			350 00		350 00	394 50		44 50		50 00	5 50
City Council Expenses			4,400 00		4,400 00	4,738 85		338 85		500 00	161 15
City Clerk, Salaries and Clerical Ass't			6,398 00		6,398 00	6,331 45	66 55		$65 00		1 55
" " Other Expenses			1,750 00		1,750 00	1,903 26		153 26		165 00	11 74
Law Department	1.3										
Salaries			4,300 00		4,300 00	4,095 15	204 85		190 00		14 85
Expenses			700 00		700 00	868 02		168 02		190 00	21 98
Finance	1.4										
Auditing, Salaries			4,000 00		4,000 00	3,878 75	121 25				121 25
" Expenses			400 00		400 00	400 00					
Assessors, Salaries			13,250 00		13,250 00	13,249 95	05				05
" Expenses			1,625 00		1,625 00	2,590 07		965 07		965 13	06
" Plans, Engineering Dept			300 00		300 00	267 62	32 38				32 38
Treasury, Salaries			10,000 00		10,000 00	10,195 63		195 63		250 00	54 37
" Expenses			5,500 00		5,500 00	5,850 00		350 00		350 00	
Sinking Funds Officials			365 00		365 00	365 00					
Elections	1.5										
Election, City Clerk			8,500 00		8,500 00	9,693 28		1,193 28		1,300 00	106 72
" Registrars			4,500 00		4,500 00	4,453 08	46 92				46 92
" Supt. Public Buildings			2,200 00		2,200 00	2,393 75		193 75		200 00	6 25
City Buildings	1.6										
Salaries			9,000 00		9,000 00	8,871 67	128 33		125 00		3 33
Expenses			12,500 00		12,500 00	15,778 69		3,278 69	600 00	3,955 00	76 31
Miscellaneous	1.7										
Postage and Stationery, Messenger			1,100 00		1,100 00	1,399 63		299 63		300 00	37
Contingent Fund			8,000 00	$29,000 00	37,000 00		37,000 00		41,525 13	4,900 00	374 87

SCHEDULE A–VII.—*Continued*

Departments.	No. in Schedule A–IV.	Credits.				Debits.	Balances and Transfers.				
		Revenue of the year carried to the credit of the Dept	Appropriation by the City Council.	Additional appropriations (if any).	Total credits (not including transfers).	Expenditures of the year.	Surplus of credits.	Deficiency of credits.	Transfers from this Dept. (charges).	Transfers to this Dept. (credits).	Amount carried to General Treasury.
Protection of Life, Health and Property.											
Police Department.	2.1										
Salaries			$134,000 00		$134,000 00	$136,285 36		$2,285 36		$2,350 00	$64 64
Expenses			5,500 00		5,500 00	6,986 24		1,486 24		1,500 00	13 76
Fire Department	2.2										
Salaries			79,000 00		79,000 00	78,462 67	$537 33		$500 00		37 33
Expenses			16,000 00		16,000 00	18,052 88		2,052 88		2,075 00	22 12
New Engine House, Ward 10			25,000 00	$5,000 00	30,000 00	17,622 54	12,377 46				12,377 46
Fire and Police Telegraph	2.2a										
Electrical Dept., Wire Account, Salaries.			7,000 00		7,000 00	7,622 00		622 00		650 00	28 00
" " " " Expenses			4,500 00		4,500 00	5,838 41		1,338 41		1,350 00	11 59
Health Department	2.4										
Salaries			12,000 00		12,000 00	12,506 79		506 79		525 00	18 21
Land for Hospital			6,500 00		6,500 00	35 00	6,465 00				6,465 00
Small-pox Hospital			1,000 00		1,000 00	870 82	129 18		120 00		9 18
Diphtheria Hospital			8,500 00		8,500 00	8,194 22	305 78		210 00		95 78
Other Expenses			8,700 00		8,700 00	8,636 57	63 43				63 43
Inspector Milk and Vinegar, Salaries.			1,375 00		1,375 00	1,363 50	11 50				11 50
" " " Expenses.			300 00		300 00	298 22	1 78				1 78
Inspector of Animals			800 00		800 00	769 64	30 36				30 36
Cemeteries and Crematories	2.5										
Cemetery Department, Salaries			17,000 00		17,000 00	14,901 60	2,098 40		2,000 00		98 40
" " Other Expenses.			3,000 00		3,000 00	3,177 22		177 22	800 00	1,000 00	22 78
Inspectors	2.6										
Supt. of Buildings, Salaries			5,900 00		5,900 00	5,819 25	80 75		80 00		75
Other Expenses.			900 00		900 00	899 71	29				29
Plumbers' Examiners Dept.			100 00		100 00	87 80	12 20				12 20
Sealer of Weights and Measures, Salaries			1,850 00		1,850 00	1,832 50	17 50				17 50
General Expenses			550 00		550 00	442 27	107 73				107 73
Militia and Armories	2.7										
Armory, Beech Street			350 00		350 00	124 81	225 19		225 00		19
Rifle Range			650 00		650 00	543 50	106 50		245 00	150 00	11 50
Car Tickets			300 00		300 00	299 31	69				69

Public Charity and Correction.											
Almshouses	3.4										
Overseers of Poor, Farm, Labor			4,200 00		4,200 00	4,157 25	42 75				42 75
" " " Supplies			800 00		800 00	800 00					
" " City Home, Salaries			7,300 00		7,300 00	7,293 11	6 89				6 89
" " " Expenses			12,000 00		12,000 00	12,000 00					
(House Offal, see No. 4.9)											
Out-door Relief	3.5										
Outside Aid, Salaries			2,700 00		2,700 00	2,755 00		55 00		55 00	
Expenses (including care of Insane)			20,500 00		20,500 00	22,608 38		2,108 38		2,110 00	1 62
City Physician			1,500 00		1,500 00	1,500 00					
Miscellaneous	3.9										
State Aid			25,000 00		25,000 00	25,657 32		657 32		675 00	17 68
Public Ways and Wastes.											
Administration	4.1										
Engineering Department, Salaries			9,500 00		9,500 00	8,719 57	780 43		300 00		480 43
" " Expenses			700 00		700 00	905 35		205 35		300 00	94 65
Street Department, Salaries, Supt., etc.			4,200 00		4,200 00	4,237 34		37 34		50 00	12 66
Opening, Grading and Widening Streets	4.2										
Grade Crossing, Prison Point St.			40,000 00	3,065 00	43,065 00	43,065 00					
Land Damages			9,634 45		9,634 45	6,193 35	3,441 10				3,441 10
Construction, Somerville Ave., etc.			15,227 65		15,227 65	15,227 10	55				55
Laurel St.			1,904 00		1,904 00	1,424 11	479 89				479 89
Madison St., etc.			29,600 00		29,600 00	29,599 44	56				56
Board of Survey			125 00		125 00	174 00		49 00		50 00	1 00
Street Paving	4.3										
Rebuilding Streets, Cambridge St., etc.			58,480 56		58,480 56	55,478 40	3,002 16		3,000 00		2 16
Wyeth Square			1,000 00		1,000 00	989 44	10 56				10 56
Macadamizing, Resurfacing and Repairing Streets, and General Expenses			70,000 00		70,000 00	69,993 13	6 87				6 87
Sidewalks	4.4										
Edgestones and Sidewalks			30,000 00		30,000 00	29,999 13	87				87
Crossings and Repairs			10,000 00		10,000 00	9,997 18	2 82				2 82
Street Lighting	4.5										
Electrical Department, Salaries			1,000 00		1,000 00	1,000 00					
Expenses			76,000 00		76,000 00	75,787 97	212 03		50 00		162 03
Street Cleaning	4.6		25,000 00		25,000 00	30,999 43		5,999 43		6,000 00	57
Snow Removal	4.7		15,000 00		15,000 00	17,999 07		2,999 07		3,000 00	93
Street Sprinkling	4.8										
Watering Streets			28,000 00		28,000 00	28,000 00					
Refuse Collection and Disposal	4.9										
Overseers of Poor, House Offal, Labor			24,000 00		24,000 00	24,511 64		511 64		550 00	38 36
Expenses			6,500 00		6,500 00	6,500 00					
Street Department, Collection of Ashes			29,000 00		29,000 00	32,096 98		3,096 98		3,100 00	3 02
Sewers and Sewage Disposal	4.10										
Sewer Dept., Construction, General			46,000 00	5,500 00	51,500 00	49,555 00	1,945 00				1,945 00
" " Improved Sewerage			47,027 11		47,027 11	35,730 95	11,296 16				11,296 16

SCHEDULE A–VII.—*Continued.*

Departments.	No. in Schedule A-IV.	Credits.				Debits.	Balances and Transfers.				
		Revenue of the year carried to the credit of the Dept	Appropriation by the City Council.	Additional appropriations (if any).	Total credits (not including transfers).	Expenditures of the year.	Surplus of credits.	Deficiency of credits.	Transfers from this Dept. (charges).	Transfers to this Dept. (credits).	Amount carried to General Treasury.
Sewers and Sewage Disposal—*Continued.*											
Sewer Dept, Separate System of Drainage			$25,000 00		$25,000 00	$19,551 26	$5,448 74				$5,448 74
" " Maintenance, General			18,000 00		18,000 00	17,520 11	479 89				479 89
Bridges	4.12										
Boston Bridges, Salaries and Labor			10,750 00		10,750 00	10,651 52	98 48		$50 00		48 48
Expenses			6,500 00		6,500 00	6,143 11	356 89		100 00		256 89
Cambridge Bridge			101,969 22	$350,000 00	451,969 22	354,442 45	97,526 77				97,526 77
Street Dept			3,100 00		3,100 00	3,097 77	2 23				2 23
Miscellaneous	4.13										
Damages to Persons and Property			4,000 00		4,000 00	1,487 93	2,512 07		2,000 00		512 07
Civil Service Department			250 00		250 00	244 87	5 13				5 13
Public Industries and Investments.											
Water Works	5.1										
Construction, General			17,000 00		17,000 00	13,600 99	3,399 01				3,399 01
Meters			4,000 00		4,000 00	3,999 12	88				88
Hobbs Brook Account:											
General			200 00		200 00	76 84	123 16				123 16
Land Settlements			5,000 00		5,000 00	221 00	4,779 00				4,779 00
Services of City Solicitor			500 00		500 00	500 00					
Stony Brook Main			7,517 82		7,517 82	3,454 03	4,063 79				4,063 79
Maintenance:											
General			22,500 00	5,177 08	27,677 08	27,673 50	3 58				3 58
Salaries			9,540 00		9,540 00	9,463 50	76 50				76 50
Pumping, Salaries			6,900 00		6,900 00	7,089 25		$189 25		$200 00	10 75
Other Expenses			10,710 00		10,710 00	10,208 94	501 06		500 00		1 06
Payson Park			800 00		800 00	784 33	15 67				15 67
Hobbs Brook			1,500 00		1,500 00	1,468 64	31 36				31 36
Fresh Pond			12,000 00		12,000 00	9,996 93	2,003 07				2,003 07
Grading			10,000 00		10,000 00	12,500 00		2,500 00		2,500 00	
Stony Brook			5,200 00		5,200 00	2,999 96	2,200 04		2,200 00		04
Rent			1,200 00		1,200 00	1,200 00					
Ice for Fountains			500 00		500 00	460 35	39 65				39 65
Rates, fines, abatements			4,000 00		4,000 00	3,917 88	82 12				82 12
Refunds			3,500 00		3,500 00	3,373 75	126 25				126 25
(See also No. 8.2 and 9.3.)											

Public Education.											
Schools	6.1										
Salaries, Janitors and Others			37,000 00		37,000 00	36,739 11	260 89		250 00		10 89
General Expenses			50,000 00	6,000 00	56,000 00	57,590 75		1,590 75		1,600 00	9 25
New Schoolhouse, Fletcher			48,974 65		48,974 65	48,973 55	1 10				1 10
" " Washington			4,698 05		4,698 05	4,698 05					
" " Kelley			984 47		984 47	789 87	194 60				194 60
" " Houghton			80,000 00	20,000 00	100,000 00	8,311 75	91,688 25				91,688 25
Addition to Rindge Manual Training Schoolhouse			6,000 00	400 00	6,400 00	7,144 98		744 98		770 00	25 02
Care of Truants			1,800 00		1,800 00	2,184 43		384 43		425 00	40 57
Flags			150 00		150 00	105 60	44 40				44 40
Incidentals			1,600 00		1,600 00	1,942 32		342 32		375 00	32 68
Salaries, Teachers and Officers			365,000 00		365,000 00	365,035 39		35 39		250 00	214 61
Text Books and Supplies			22,000 00		22,000 00	28,538 27		6,538 27		6,550 00	11 73
Transportation of Pupils			325 00		325 00	321 00	4 00				4 00
Vacation Schools			2,000 00		2,000 00	1,957 43	42 57				42 57
Libraries	6.2										
Main Library:											
Salaries			9,200 00		9,200 00	8,943 08	256 92		250 00		6 92
Expenses			9,500 00		9,500 00	9,747 85		247 85		250 00	2 15
East Cambridge Branch:											
Salaries			800 00		800 00	756 64	43 36		43 00		36
Expenses			1,000 00		1,000 00	1,042 45		42 45		43 00	55
Addition			371 79		371 79	371 79					
Public Art and Recreation.											
Parks	7.2										
Construction and Lands			25,000 00	6,000 00	31,000 00	25,576 13	5,423 87				5,423 87
Maintenance:											
Brown Tail Moth Extermination			3,700 00		3,700 00	6,699 57		2,999 57		3,000 00	43
Commons, Sqs. & Pub. Grounds			5,000 00		5,000 00	4,999 90	10				10
Cambridge Field and Shelter			6,000 00		6,000 00	5,399 14	600 86		600 00		86
General Account			600 00		600 00	599 99	01				01
Sections A, B, D, F, & Rindge Fd.			3,200 00		3,200 00	2,699 71	500 29		500 00		29
Sections G and H.			3,300 00		3,300 00	3,298 10	1 90				1 90
Shade Trees			5,000 00		5,000 00	4,999 70	30				30
Baths	7.3		2,200 00		2,200 00	1,696 30	503 70		500 00		3 70
Celebrations	7.4										
Memorial Day			1,100 00		1,100 00	1,100 00					
Fourth of July			1,500 00		1,500 00	1,692 40		192 40		200 00	7 60
Labor Day			400 00		400 00	400 00					
Public Indebtedness.											
(Transactions during the year.)											
Sinking Funds	8.2										
Park			22,973 33		22,973 33	22,973 33					
Cambridge Bridge			8,000 00		8,000 00	8,000 00					
Clay Lands			5,335 00		5,335 00	5,335 00					

SCHEDULE A–VII.—*Concluded.*

Departments.	No. in Schedule A-IV.	Credits.				Debits.	Balances and Transfers.				
		Revenue of the year carried to the credit of the Dept	Appropriation by the City Council.	Additional appropriations (if any).	Total credits (not including transfers).	Expenditures of the year.	Surplus of credits.	Deficiency of credits.	Transfers from this Dept. (charges).	Transfers to this Dept. (credits).	Amount carried to General Treasury.
Sinking Funds—*Continned.*											
General			$104,408 25		$104,408 25	$104,408 25					
Harvard Bridge			8,800 00		8,800 00	8,800 00					
Hospital			225 00		225 00	225 00					
Metropolitan Park Assessment			1,012 00		1,012 00	1,012 00					
Improved Sewerage			6,644 00		6,644 00	6,644 00					
Water			121,522 50		121,522 50	121,522 50					
Direct Payment of Matured Debt: (Not from Sinking Funds, but from Tax Levy Direct)	8.3		51,000 00		51,000 00	51,000 00					
Public Interest.											
Payment of Interest on Debt, etc.	9.3 / 9.4										
City			230,604 00		230,604 00	230,394 87	$209 13				$209 13
Water			134,206 50		134,206 50	126,126 50	8,080 00				8,080 00
Taxation.											
Real Property Taxes	10.1										
Abatements, etc											
Refunds, etc											
Liquor Licenses	10.4										
Commonwealth of Massachusetts						14 75		14 75			

APPROPRIATIONS AND EXPENDITURES

No. 1. GENERAL GOVERNMENT.

MAYOR'S DEPARTMENT. (1.1)

SALARIES.

Appropriation		$5,480 00
EXPENDED.		
For salaries of Mayors: —		
John H. H. McNamee	$291 67	
Augustine J. Daly	3,208 33	
	$3,500 00	
Clerk, Edw. A. Counihan	1,200 00	
Stenographer, Georgie W. Sanborn	780 00	
Total		5,480 00

GENERAL EXPENSES.

Appropriation		$420 00
EXPENDED.		
For advertising: —		
Cambridge Chronicle	$10 64	
Binding: —		
J. H. H. McNamee Co.	5 25	
Carriage hire: —		
John J. Corkery	$3 00	
Frank P. Merrill	8 00	
Fred D. Norton	16 00	
G. F. Whiting & Co.	65 00	
	92 00	
Services sending invitations to inauguration: —		
J. H. Webber	7 00	
Directories: —		
Sampson, Murdock, & Co.	$6 00	
Chas. H. Thurston	20	
	6 20	
Expressage: —		
Savage & Son	25	
Messages: —		
Western Union Telegraph Co.	1 04	
Amounts carried forward	$122 38	$420 00

General Government — Continued

MAYOR'S DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$122 38	$420 00
For service transfer: —			
Postage and Stationery Account .		83 98	
Stationery, printing, etc.: —			
A. R. Andrews	$4 60		
J. A. Cummings Printing Co. .	23 71		
J. Frank Facey	35 00		
Hobbs & Warren Co. . . .	7 75		
		71 06	
Telephone service		83 00	
Typewriter, repairs and supplies: —			
Smith Premier Typewriter Co. .		50 73	
Wall map of Massachusetts: —			
The Scarborough Co. . . .		3 00	
Total			414 15
Surplus of appropriation relinquished to General Treasury			$5 85

COUNCILS (1.2)

CITY CLERK'S DEPARTMENT.

SALARIES.

Appropriation			$6,398 00
EXPENDED.			
For salaries of: —			
City Clerk, Edw. J. Brandon . .		$3,000 00	
Assistant City Clerk, Albert M. Pear		1,400 00	
Clerical assistance: —			
Helen L. Brady		233 95	
Annie E. Conley		387 00	
Anne Jacobs		250 00	
Amanda R. Murray		702 00	
Temporary clerks		358 50	
Total			6,331 45
Surplus of appropriation			$66 55
Transfer from this account to City Clerk's Department, General Expenses			65 00
Balance relinquished to General Treasury . . .			$1 55

General Government — Continued.

CITY CLERK'S DEPARTMENT — Continued.

GENERAL EXPENSES.

Appropriation $1,750 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For fees from sundry persons . . $1,216 98

EXPENDED.

For advertising: —			
Cambridge Chronicle . . .	$4 72		
Cambridge Sentinel Publishing Co.	4 50		
Cambridge Tribune . . .	4 50		
Press Newspaper Co. . . .	4 50		
Times Publishing Co. . . .	4 50		
		$22 72	
"Acts and Resolves": —			
Marshall Thompson . . .		17 50	
Atlas: —			
Geo. H. Walker & Co. . . .		25 00	
Badges: —			
A. J. Berge & Co.		9 00	
Binding: —			
J. H. H. McNamee Co. . . .		19 75	
Canvassing for births: —			
Manuel Andrew	$36 00		
Richard L. Barry	45 00		
Emile J Grenier	45 00		
Warren Ivers	36 00		
Jas. E. Lennon	45 00		
Wm. F. McCormick . . .	45 00		
Geo H Munroe	42 00		
Patrick J. Murphy	43 50		
Edwin A. Peterson . . .	19 50		
Edward J. Sweeney . . .	48 00		
Patrick J. White	48 00		
Chas. J. Wood	30 00		
		483 00	
Couch cover: —			
John Cashman		5 00	
Directories: —			
W. A. Greenough & Co. . . .	$3 50		
Sampson, Murdock Co. . . .	6 00		
		9 50	
Expressage: —			
Sundry persons		1 65	
Amounts carried forward . . .		$593 12	$1,750 00

General Government — Continued.

CITY CLERK'S DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$593 12	$1,750 00
For keys: —			
Wingate W. Thomas . . .		50	
Law books: —			
Wm. J. Nagel	$17 00		
Geo. B. Reed	3 00		
		20 00	
Leather couch: —			
John Cashman		20 00	
Official bond: —			
American Surety Co. . . .		12 00	
Pencil sharpener repaired: —			
Carl Straus		2 06	
Posting and serving notices: —			
Bay State Claim Co. . . .	$26 00		
James E. Lennon	18 75		
Chas. F. Manning	4 50		
		49 25	
Recording deeds: —			
E. O. Childs, Register . . .		17 18	
Repairing fasteners: —			
Edgar Hall		1 00	
Reporting births: —			
Sundry physicians		413 00	
Service transfer: —			
Postage and Stationery Account .		145 30	
Stamps: —			
Estate of H. C. Dimond & Co. .	$1 53		
Pneumatic Hand Stamp Co. . .	1 09		
		2 62	
Stationery, printing, etc.: —			
Fred L. Beunke	$7 25		
C. S Binner Corporation . .	3 50		
Cambridge Chronicle	23 00		
Caustic-Claflin Co.	29 75		
Clarke Loose-Leaf Book Co. . .	3 50		
Cotton & Gould	84 25		
J. A. Cummings Printing Co. .	51 23		
H J. Duffy	15 85		
J. Frank Facey	51 25		
John H. Ford	16 00		
E. W. S. Jones	8 75		
The Fred Macey Co. . . .	22 50		
Henry M. Meek Publishing Co. .	12 50		
Times Publishing Co. . . .	11 50		
Edw. W. Wheeler	53 75		
		394 58	
Telephone service		79 58	
Amounts carried forward . .		$1,750 19	$1,750 00

General Government — Continued.

CITY CLERK'S DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$1,750 19	$1,750 00
For typewriter and repairs: —			
Smith Premier Typewriter Co. .		52 20	
Verifying and obtaining facts for records: —			
Wm. F. McCormick . . .		97 87	
Wall map of Massachusetts: —			
The Scarborough Co. . . .		3 00	
Total			1,903 26
Excess of expenditures over appropriation . . .			$153 26
Transfers to this account: —			
From City Clerk Department, Salaries	$65 00		
From Contingent Fund . . .	100 00		
			165 00
Balance relinquished to General Treasury . . .			$11 74

COUNCILS. (1.2)

CITY MESSENGER'S DEPARTMENT.

SALARIES.

Appropriation			$1,476 00
EXPENDED.			
For salaries of: —			
City Messenger, Frank T. Evans .		$1,083 31	
Assistant, Wm. E. McAnaul . .		476 00	
Total			1,559 31
Excess of expenditures over appropriation . . .			$83 31
Transfer to this account from Contingent Fund . . .			100 00
Balance relinquished to General Treasury			$16 69

GENERAL EXPENSES.

Appropriation			$200 00
EXPENDED.			
For car tickets: —			
Boston Elevated Railway Co. .		$45 00	
Delivering annual reports: —			
P. Biggin		5 00	
Amounts carried forward . . .		$50 00	$200 00

General Government — Continued.

CITY MESSENGER'S DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward		$50 00	$200 00
For directories: —			
W. A. Greenough & Co.	$3 50		
Seaver-Radford Co.	5 00		
		8 50	
Expressage: —			
American Express Co.	$5 35		
Burland & Son	1 40		
Sawin's Express	10 45		
		17 20	
Mounting mallets: —			
C. A. Twitchell & Co.		5 50	
Printing: —			
J. Frank Facey	$3 00		
John H. Hezlitt	4 25		
		7 25	
Railroad guide: —			
Geo. E. French		4 35	
Rent of post-office box		10 00	
Service transfer: —			
Postage and Stationery Account		92 70	
Subscriptions: —			
Geo. E. French		4 50	
Total			200 00

COUNCILS. (1.2)

CLERK OF COMMITTEES' DEPARTMENT.

SALARIES.

Appropriation		$3,300 00
EXPENDED.		
For salaries of: —		
Clerk of Committees, John McDuffie	$2,400 00	
Assistant, Eben W. Pike	900 00	
Temporary clerks	33 00	
Total		3,333 00
Excess of expenditures over appropriation		$33 00
Transfer to this account from Contingent Fund		100 00
		$67 00
Transfer from this account to Clerk of Committees' Department, General Expenses		50 00
Balance relinquished to General Treasury		$17 00

General Government — Continued.

CLERK OF COMMITTEES' DEPARTMENT — Continued.

GENERAL EXPENSES.

Appropriation			$350 00
EXPENDED.			
For advertising: —			
Cambridge Chronicle		$18 03	
Binding: —			
David Farquhar		8 00	
Directories: —			
W. A. Greenough & Co.	$7 00		
Sampson, Murdock, & Co.	6 00		
		13 00	
Frame, Vickery & Co.		2 50	
Service transfer: —			
Postage and Stationery Account		96 29	
Stamps and repairs: —			
Pneumatic Hand Stamp Co.		4 45	
Stationery, printing, etc.: —			
Adams, Cushing & Foster	$3 75		
Cambridge Chronicle	107 10		
Cotton & Gould	58 75		
		169 60	
Subscription: —			
Times Publishing Co.		1 00	
Telephone service		66 43	
Typewriter repairs: —			
The Typewriter Exchange		12 20	
Wall map of Massachusetts: —			
The Scarborough Co.		3 00	
Total			394 50
Excess of expenditures over appropriation			$44 50
Transfer to this account from Clerk of Committees' Department, Salaries			50 00
Balance relinquished to General Treasury			$5 50

COUNCILS. (1.2)

CITY COUNCIL EXPENSES.

Appropriation			$4,400 00
EXPENDED.			
For salaries of: —			
Clerk, Edw. A. Counihan	$500 00		
Page, Wm. E. McAnaul	100 00		
		$600 00	
Amounts carried forward		$600 00	$4,400 00

General Government — Continued.

CITY COUNCIL EXPENSES — Continued.

Amounts brought forward . .		$600 00	$4,400 00
For advertising: —			
Cambridge Chronicle . . .	$77 29		
Cambridge Press	4 00		
Cambridge Sentinel Publishing Co.	4 00		
Cambridge Tribune . . .	4 00		
Times Publishing Co. . . .	4 00		
		93 29	
"American Digest": —			
West Publishing Co. . . .		27 00	
Binding: —			
Boston Bookbinding Co. . .	$22 18		
J. H. H. McNamee Co. . . .	71 25		
		93 43	
Car tickets: —			
Boston Elevated Railway Co. .		500 00	
"Century Digest": —			
West Publishing Co. . . .		42 00	
Clerical services: —			
Katharine Keenan		9 75	
Dies of City seal: —			
Allen, Doane & Co. . . .	$16 50		
Estate of H. C. Dimond & Co. .	15 00		
		31 50	
Engraving cuts of City Hall: —			
C. J. Peters & Son Co. . . .		10 00	
Engrossing resolutions: —			
Frank L. Wells		85 00	
Expenses of committees: —			
Carriage hire: —			
J. J Callahan . .	$12 00		
John J. Corkery .	40 00		
John J. Donahue .	11 00		
Geo. E Francis . .	44 00		
T. W. Hillier & Co. .	8 00		
Frank P. Merrill .	10 00		
Geo. D. Merrill . .	11 50		
H. K. Parsons & Co. .	47 50		
D. Reardon . . .	34 00		
Soden Street Stable .	78 00		
G. F. Whiting & Co. .	42 00		
G. W. Worcester .	8 00		
	$346 00		
Car fares: —			
Frank T. Evans . .	30 15		
Amounts carried forward . . .	$376 15	$1,491 97	$4,400 00

General Government — Continued.

CITY COUNCIL EXPENSES — Concluded.

Amounts brought forward . .	$376 15	$1,491 97	$4,400 00
For printing: —			
Cambridge Chronicle . $330 03			
J. A. Cummings Printing Co. . . . 1,434 57			
J. Frank Facey . . 141 50			
Monk, Bordley & Evans 98 82			
Edw. W. Wheeler . 32 50			
———	2,037 42		
Refreshments: —			
M. R. Jones . . $225 00			
Mansion House . . 138 43			
A. V. Millett . . 35 00			
Monument House . 20 50			
Riverbank Court . 150 40			
———	569 33		
	———	2,982 90	
Flowers for funerals: —			
Wm. E. Doyle	$72 00		
P. O'Brien & Son	35 00		
	———	107 00	
avels: —			
John Quin & Son	$2 50		
Standard Turning Works . .	50		
	———	3 00	
Law books: —			
Wm. J. Nagel		10 25	
Legislative documents: —			
Marshall Thompson . . .		14 50	
Ringing bells on holidays . . .		78 00	
Service transfer: —			
Postage and stationery . . .		19 85	
Serving notices: —			
James E. Lennon		1 00	
Typewriting: —			
Amanda R. Murray . . .		20 25	
Use of chairs: —			
John Cashman		10 13	
		———	
Total			4,738 85
Excess of expenditures over appropriation . .			$338 85
Transfer to this account from Contingent Fund . .			500 00
Balance relinquished to General Treasury . . .			$161 15

General Government — Continued.

LAW DEPARTMENT. (1.3)

SALARIES.

Appropriation		$4,300 00

EXPENDED.

For salaries of: —			
City Solicitor, G. A. A. Pevey		$3,500 00	
Stenographers: —			
Herbert W. Gleason	$15 85		
Arthur C. Holden	354 00		
Henry P. Jones	15 00		
Irving A. Priest	190 00		
Jeannette Soule	20 30		
		595 15	
Total			4,095 15
Surplus of appropriation			$204 85
Transfer from this account to Law Department, General Expenses			190 00
Balance relinquished to General Treasury			$14 85

GENERAL EXPENSES.

Appropriation	$700 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For services of City Solicitor: —		
Water Department	$500 00	

EXPENDED.

For advertising: —			
Cambridge Chronicle	$ 77		
Cambridge Tribune	2 25		
Times Publishing Co.	3 50		
		$6 52	
Binding, Riverside Bindery		24 70	
Blue prints, Chas. E Moss		1 90	
Carriage hire, H. W. Boutwell		3 00	
Car tickets: —			
Boston Elevated Railway Co.		130 00	
Cash expended for sundries: —			
G. A. A. Pevey		5 75	
Certified copies, E. O. Childs		5 25	
Directory, W. A. Greenough & Co.		3 50	
Amounts carried forward		$180 62	$700 00

General Government — Continued.

LAW DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$180 62	$700 00
For examining releases, etc.: —			
Geo. D. Wildes		5 00	
Law books: —			
Wm. J. Nagel	$42 00		
G. A. A. Pevey	50		
The Michie Co.	5 00		
Little, Brown & Co. . .	6 00		
		53 50	
Office rent, Bangs & Wells . .		250 00	
Service transfer: —			
Postage and Stationery Account .		59 01	
Services: —			
E. Osborn	$10 00		
Clementine Savoy	8 00		
		18 00	
Services as witness, Isaac S. Pear .		5 00	
Services and expenses: —			
Henry C. Jones		51 90	
Services in appraisal: —			
David Thompson		5 00	
Serving notices: —			
Suffolk Deputy Sheriffs . . .	$1 58		
Walter C. Wardwell . . .	16 50		
		18 08	
Stationery, printing, etc.: —			
T. H. Ball	$33 86		
Geo. E. Crosby & Co. . . .	59 00		
Edw. W. Wheeler	6 50		
		99 36	
Subscription: —			
The Review and Record Co. . .		5 00	
Telephone service		117 10	
Typewriter repairs: —			
Smith Premier Typewriter Co. .		45	
Total			868 02
Excess of expenditures over appropriation . .			$168 02
Transfer to this account from Law Dept., Salaries .			190 00
Balance relinquished to General Treasury . . .			$21 98

General Government — Continued.

FINANCE. (1.4)

ASSESSORS' DEPARTMENT

SALARIES.

Appropriation			$13,250 00
EXPENDED.			
For salaries of Assessors: —			
Wm. F. Brooks	$2,000 00		
Jeremiah F. Donovan	2,000 00		
D B. Shaughnessy	2,000 00		
		$6,000 00	
Assistant Assessors: —			
James R. Boyd	$175 00		
Chas. W. Callahan	175 00		
James Culhane	175 00		
Edward T. Flanagan	175 00		
Thomas Gallagher	175 00		
Warren Ivers	175 00		
Felix C. McBride	175 00		
Chas. E. McCarthy	175 00		
Geo. H. Munroe	175 00		
Patrick J. White	175 00		
Franklin H. Wright	175 00		
		1,925 00	
Clerical assistance: —			
Carrie A. Estes	$780 00		
Kittie L. Magoun	780 00		
Jessie I. R. Waterman	780 00		
Temporary clerks	2,984 95		
		5,324 95	
Total			13,249 95
Surplus of appropriation relinquished to General Treasury			05

GENERAL EXPENSES.

Appropriation			$1,625 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.			
For rebate on bill: —			
Horace J. Stevens	$5 00		
EXPENDED.			
For abstracts, Horace J. Stevens		$75 00	
Advertising, Cambridge Chronicle		23 41	
Carriage hire, G. F. Whiting & Co.		21 00	
Car tickets: —			
Boston Elevated Railway Co.		50 00	
Amounts carried forward		$169 41	$1,625 00

General Government — Continued.

ASSESSORS' DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$169 41	$1,625 00
For directories: —			
W. A. Greenough & Co. . . .	$3 50		
Sampson, Murdock & Co. . .	6 00		
		9 50	
Expressage, Sawin's Express . .		1 05	
Expenses of hearing before County Commissioners: —			
Carriage hire, Hugh Bancroft .	$3 33		
Serving notices: —			
Walter C. Wardwell . . .	4 00		
Services as experts: —			
P. H. Concannon . $50 00			
Thomas F. Myles . 100 00			
Chas. H. Thurston . 300 00			
F. M. Wallace . . 50 00			
	500 00		
Stenographic reports: —			
H. W. Gleason	457 80		
		965 13	
Service transfer: —			
Postage and Stationery . . .		132 88	
Stationery, printing, etc.: —			
Cambridge Chronicle . . .	$24 75		
Cotton & Gould	296 40		
J. A. Cummings Printing Co. .	680 00		
J. Frank Facey	34 00		
Chas. H. Thurston . . .	50		
		1,035 65	
Subscription: —			
The Review and Record Co. . .		5 00	
Tax books, E W. S. Jones . .		37 00	
Telephone service		100 35	
Table, Worcester Bros. . . .		13 50	
Typewriter, cabinet, etc.: —			
Smith Premier Typewriter Co. .		120 60	
Total			2,590 07
Excess of expenditures over appropriation . . .			$965 07
Transfer to this account from Contingent Fund . .			965 13
Balance relinquished to General Treasury . . .			06

General Government — Continued.

FINANCE. (1.4)

ASSESSORS' PLANS.

Appropriation		$300 00
EXPENDED.		
For services of engineers	$267 62	
Total		267 62
Surplus of appropriation relinquished to General Treasury		$32 38

FINANCE. (1.4)

AUDITING DEPARTMENT.

SALARIES.

Appropriation			$4,000 00
EXPENDED.			
For salary of: —			
City Auditor, Harry T. Upham		$2,500 00	
Clerical assistance: —			
Esther L. Cogan	$585 00		
Mabel W. Hall	644 50		
Mary A. McKenzie	65 00		
Temporary clerks	84 25		
		1,378 75	
Total			3,878 75
Surplus of appropriation relinquished to General Treasury			$121 25

GENERAL EXPENSES.

Appropriation		$400 00
EXPENDED.		
For box, Place Box Co.	$2 00	
Directory, W. A. Greenough & Co.	3 50	
Document files: —		
Art Metal Construction Co.	18 00	
Official bond, Arthur R. Henderson	30 00	
Scissors, E. T. Bynner	50	
Service transfer: —		
Postage and Stationery Account	62 11	
Amounts carried forward	$116 11	$400 00

General Government — Continued.

AUDITING DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward		$116 11	$400 00
For stationery, printing, etc.: —			
Cotton & Gould	$24 74		
J. A. Cummings Printing Co.	54 24		
J. Frank Facey	62 50		
Globe-Wernicke Co.	32 93		
Will J. Hayner	8 75		
John H. Hezlitt	7 00		
Monk, Bordley & Evans	2 50		
Postmaster, Boston	42 40		
Times Publishing Co.	20 50		
		255 56	
Subscriptions: —			
Cambridge Tribune	$2 50		
Geo. E. French	2 50		
National Municipal League	5 00		
		10 00	
Telephone service		10 33	
Traveling expenses		5 00	
Wall map of Massachusetts: —			
The Scarborough Co.		3 00	
Total			400 00

FINANCE. (1.4)

TREASURY DEPARTMENT.

SALARIES.

Appropriation	$10,000 00

EXPENDED.

For salaries of: —		
City Treasurer, Wm. W. Dallinger	$3,000 00	
Clerical assistance: —		
E. G. Stevens	1,555 00	
E. J. Howlett	1,244 00	
J. H. Webber	1,244 00	
P. B Dallinger	861 67	
E. E. Estes	777 50	
Ella M. Chandler	423 50	
M. Alice Dow	485 53	
Temporary clerks	604 43	
Total		10,195 63
Excess of expenditures over appropriation		$195 63
Transfer to this Account from Contingent Fund		250 00
Balance relinquished to General Treasury		$54 37

General Government — Continued.

TREASURY DEPARTMENT, GENERAL EXPENSES — Continued.

Appropriation $5,500 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For advertising	$340 14
Deeds	308 00
Posting	77 50
Recording	23 10
Tax sale descriptions	320 70
Tax sale releases	4 00
Tax summons	1,356 17
Sidewalk assessment summons	1 20
	$2,430 81

EXPENDED.

For advertising, Cambridge Chronicle			$417 79
Car tickets: —			
Boston Elevated Railway Co.			10 00
Carriage hire, M. J. Fairbanks			544 00
Cheques, Lyman B. Brooks			49 00
Commissions for collecting taxes: —			
Joseph Fox	$701 86		
Edward Grant	245 50		
Warren Ivers	788 97		
D. J. Moynahan	778 25		
John J. O'Brien	204 00		
		2,718 58	
Directories: —			
W. A Greenough & Co.	$7 00		
Sampson, Murdock Co.	6 00		
		13 00	
Execution of Court: —			
Lawrence P. Soule et al.		24 76	
Official bond, American Surety Co.		160 00	
Postage: —			
F. M Small, Superintendent		1,037 72	
Recording deeds, E. O. Childs		38 05	
Stamps and repairs: —			
Boston Stencil and Stamp Works		17 00	
Service transfer: —			
Postage and Stationery Account		45 34	
Stationery, printing, etc.: —			
Lyman B. Brooks	$24 00		
Carter, Rice & Co.	56 64		
Wm. H. Claflin & Co.	28 50		
Amounts carried forward	$109 14	$5,075 24	$5,500 00

General Government — Continued.

TREASURY DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .	$109 14	$5,075 24	$5,500 00
For Cotton & Gould	37 50		
J. A. Cummings Printing Co. .	11 09		
J. Frank Facey	2 50		
John H. Ford	144 75		
Will J. Hayner	5 75		
E. W. S. Jones	63 88		
Monk & Bordley	161 80		
Monk, Bordley & Evans . . .	41 75		
Times Publishing Co. . . .	46 50		
University Press	12 50		
		637 16	
Subscription, Geo. E. French . .		6 00	
Telephone service		131 60	
Total			5,850 00
Excess of expenditures over appropriation . .			$350 00
Transfer to this account from Contingent Fund . .			350 00

FINANCE. (1.4)

SINKING FUND OFFICIALS.

Appropriation			$365 00
EXPENDED.			
For salaries of: —			
Treasurer, Wm. W. Dallinger .	$300 00		
Clerk, John McDuffie . . .	25 00		
		$325 00	
Rent of box: —			
Boston Safe Deposit Co. . .		40 00	
Total			365 00

ELECTIONS. (1.5)

ELECTION EXPENSES, CITY CLERK.

Appropriation			$8,500 00
EXPENDED.			
For election officers	$5,514 50		
Precinct men	415 00		
Bell ringers	26 00		
Special officers	5 50		
Special clerks	26 00		
Janitor, John Good	38 00		
Amounts carried forward . . .	$6,025 00		$8,500 00

General Government — Continued.

ELECTION EXPENSES, CITY CLERK — Continued.

Amounts brought forward . . .	$6,025 00		$8,500 00
For clerical assistance: —			
Anne Jacobs	25 00		
Margaret A. Dayton . . .	93 32		
Nellie B. Buckley	29 38		
Clerical assistance at recount: —			
Edward F. Walsh	12 80		
		$6,185 50	
Advertising: —			
Cambridge Chronicle . . .	$139 61		
Cambridge Democrat . . .	41 00		
Cambridge Press	39 00		
Cambridge Sentinel Publishing Co.	122 00		
Cambridge Tribune . . .	123 25		
Review Publishing Co. . . .	32 00		
Times Publishing Co. . . .	126 75		
		623 61	
Barges, John Nixon		270 00	
Boxes, Place Box Co. . . .		14 90	
Carpentry, W. H. Norris . . .		12 09	
Carriage hire: —			
John J. Donahue . . .	$6 00		
F. R Nickerson	6 00		
G. F. Whiting & Co. . . .	8 00		
		20 00	
Car tickets: —			
Boston Elevated Railway Co. .		20 00	
"Caucus laws," Richard L. Gay .		24 75	
Cloth bags, Place Box Co. . .		30 00	
Distributing and tacking precinct cards: —			
Fred E. Thyng		38 00	
Expressage and teaming: —			
American Express Co. . . .	$ 40		
P Biggin	26 50		
Butland's Express	15		
W. A. Nichols	15		
Sawin's Express	45		
		27 65	
Hardware and supplies, E. T. Bynner		14 23	
Labor, T. J. Denton		59 77	
Lunches: —			
W. S Sprague	$30 95		
John Ryan	5 00		
Sundry persons	3 25		
		39 20	
Mounting lists: —			
J. H. H. McNamee Co. . . .		132 35	
Amounts carried forward . . .		$7,512 05	$8,500 00

General Government — Continued.

ELECTION EXPENSES, CITY CLERK — Concluded.

Amounts brought forward		$7,512 05	$8,500 00
For posting and serving notices: —			
James E. Lennon	$9 00		
George H. Munroe	9 00		
Fred E. Thyng	4 00		
		22 00	
Preparing lists: —			
Wm. F. McCormick		88 50	
Repairing floors, R. A. McLeod		28 00	
Repairing ballot boxes: —			
Edgar Hall	$20 50		
Hall Bros.	58 50		
		79 00	
Services: —			
Geo. A Callahan	$2 00		
Daniel W. Cronin	2 00		
Herbert Dayton	1 00		
Jos. J. Donahue	1 50		
Lewis B. Guyer	2 00		
Edw. F. Walsh	2 00		
		10 50	
Signs and frames, Thos. Sweeney		61 30	
Seal: —			
Boston Stencil and Stamp Works		2 25	
Stamps: —			
Estate of H. C. Dimond & Co.		42 26	
Service transfer: —			
Postage and stationery		81 60	
Stationery, printing, etc.: —			
Fred L. Beunke	$13 00		
Cambridge Chronicle	99 50		
Casey, Bigley & Co.	22 15		
Caustic, Claflin Co.	111 00		
Cotton & Gould	206 75		
J. A. Cummings Printing Co.	592 74		
J. Frank Facey	446 75		
Monk & Bordley	2 00		
A. Storrs & Bement Co.	86 18		
Edw. W. Wheeler	142 25		
		1,722 32	
Telephone service		20 00	
Work on election return frames: —			
J. J. Foley		23 50	
Total			9,693 28
Excess of expenditures over appropriation			$1,193 28
Transfer to this account from Contingent Fund			1,300 00
Balance relinquished to General Treasury			$106 72

General Government — Continued.

ELECTIONS. (1.5)

ELECTION EXPENSES, REGISTRARS OF VOTERS.

Appropriation		$4,500 00

EXPENDED.

For salaries of Registrars of Voters and Clerk: —			
Peter P. Bleiler	$500 00		
J. Frank Facey	500 00		
John P. McCormick	500 00		
Isaac S. Pear	600 00		
		$2,100 00	
Services at recount: —			
Richard L. Barry	$19 25		
Wm. D Berkeley	19 25		
Wm. F. Boyle	3 50		
Albert F Buffum	22 75		
Wm E Burrage	19 25		
Thos. J. Denton	15 00		
Herbert H. Dyer	19 25		
John W. Garvin	19 25		
John H Gleason	19 25		
Edw. Grant	3 50		
Chas. F. Lewis	22 75		
George B. Lothrop	22 75		
Jeremiah J. Reagan	19 25		
Jos. J. Reed	19 25		
James A. Rice	3 50		
Frank H. Smith	22 75		
John J. Swift	3 50		
Edw. F. Wadden	19 25		
Chas. H. Wiggin	19 25		
		312 50	
Clerical assistance: —			
Olive A. Hastings	$6 00		
Ella A. Lothrop	635 00		
Marion F. Lothrop	9 00		
		650 00	
Advertising: —			
Cambridge Chronicle	$33 60		
Cambridge Sentinel Publishing Co.	18 00		
Cambridge Tribune	18 00		
Times Publishing Co.	18 00		
		87 60	
Binding, etc.: —			
David Farquhar	$13 50		
John H. H. McNamee Co.	18 45		
		31 95	
Cabinets, Globe-Wernicke Co.		41 50	
Carpentry, W. H. Norris		25 96	
Directory, W. A. Greenough & Co.		4 00	
Frame stand, Howe Spring Bed Co.		3 00	
Posting lists, Geo. H. Munroe		32 50	
Amounts carried forward		$3,289 01	$4,500 00

General Government — Continued.

ELECTION EXPENSES, REGISTRARS OF VOTERS — Concluded.

Amounts brought forward . .		$3,289 01	$4,500 00
For repairing lighting apparatus: —			
Geo. F. Dickson		1 22	
Service transfer: —			
Postage and stationery . . .		13 50	
Stationery, printing, etc.: —			
James W. Bean	$1,027 50		
E. W. S. Jones	18 50		
A. Storrs & Bement Co. . .	26 50		
Louis F. Weston	3 50		
		1,076 00	
Placing and removing list boards: —			
W. H. Norris		30 00	
Teaming, P. Biggin		5 25	
Telephone service		26 10	
Use of horse and buggy: —			
F. R. Nickerson		12 00	
Total			4,453 08
Surplus of appropriation relinquished to General Treasury			$46 92

ELECTIONS. (1.5)

ELECTION EXPENSES, SUPERINTENDENT OF BUILDINGS.

Appropriation			$2,200 00
	EXPENDED.		
For carpentry: —			
Chas. H. Callahan	$7 20		
Thos. Powers	41 96		
John Quin & Son	61 16		
		$110 32	
Fuel, Metropolitan Coal Co. . .		78	
Lamps: —			
E. T. Bynner	$1 90		
P. J. Carmichael	2 75		
T. J. Daly	2 50		
G. F. Dickson	52 45		
		59 60	
Amounts carried forward . . .		$170 70	$2,200 00

General Government — Continued.

ELECTION EXPENSES, SUPERINTENDENT OF BUILDINGS — Concluded.

Amounts brought forward		$170 70	$2,200 00
For lighting :—			
Cambridge Electric Light Co.		24 00	
Preparing rooms for voting		258 25	
Rent :—			
Cambridge Athletic Association	$175 00		
Cambridgeport Savings Bank	16 00		
Chas. Beck Post, 56, G. A. R.	100 00		
Citizens' Trade Association	50 00		
Malta Temple Association	32 00		
Mt. Sinai Building Association	95 00		
J. F. Noera	65 00		
John F. O'Brien	50 00		
Observatory Hill Club	50 00		
Odd Fellows' Hall Association	120 00		
Red Jacket Veteran Firemen's Ass'n	70 00		
St. John's Literary Institute	190 00		
St. Paul's A. M. E. Church	45 00		
Ward Seven Republican Club	18 00		
Patrick J. White	40 00		
		1,116 00	
Running elevator, Edward F. Walsh		4 00	
Setting up and removing voting booths and platforms :—			
Chas. H. Callahan	$141 55		
C. T. Grames	111 11		
S. F. McArthur	8 20		
Thos. Powers	92 64		
John Quin & Son	254 95		
		608 45	
Setting glass, Duffy Bros.		2 00	
Setting up stove, Wm. H. O'Leary		6 72	
Supplies, E. P. Clark		53	
Teaming booths :—			
P. Biggin	$144 00		
Jeremiah Sullivan	21 00		
		165 00	
Use of chairs and tables :—			
Worcester Bros.		6 10	
Use of horse and carriage :—			
T. W. Hillier & Co.		32 00	
Total			2,393 75
Excess of expenditures over appropriation			$193 75
Transfer to this account from Contingent Fund			200 00
Balance carried to General Treasury			$6 25

General Government — Continued.

CITY HALL. (16)

CITY BUILDING ACCOUNT.

SALARIES.

Appropriation	$9,000 00

EXPENDED.

For salaries of janitors and other employees in City buildings	$8,871 67	
Total		8,871 67
Surplus of appropriation		$128 33
Transfer from this account to City Building Account, General Expenses		125 00
Balance relinquished to General Treasury		$3 33

GENERAL EXPENSES.

Appropriation	$12,500 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For heating police stations and engine houses	$1,265 00

EXPENDED.

For advertising, Cambridge Chronicle		$8 00	
Cleaning at armory, Peter Kelly		1 50	
Dues, Gas Consumers' Association		39 00	
Expressage and moving furniture: —			
P. Biggin	$8 00		
T. H. Fitzpatrick	50		
		8 50	
Fuel: —			
Consumers' Co-operative Coal Co.	$130 00		
P. F. Gayton & Co.	16 25		
Metropolitan Coal Co.	4,172 04		
		4,318 29	
Labor at storehouse, Wm. P. Purcell		3 00	
Lighting: —			
Cambridge Electric Light Co.	$1,459 30		
Cambridge Gas Light Co.	580 00		
		2,039 30	
Washing towels, Nellie M. Carey		126 78	
Amounts carried forward		$6,544 37	$12,500 00

General Government — Continued.

CITY BUILDING ACCOUNT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$6,544 37	$12,500 00
For repairs to buildings: —			
Carpentry: —			
D T. Cormier . .	$5 00		
D. K. Dinsmore . .	26 06		
W. Fillmore Co. . .	233 45		
J. J. Foley . . .	9 50		
C. T. Grames . .	53 77		
C. Mahoney . .	3 50		
W H. Norris . .	86 69		
Thomas Powers . .	320 73		
John Quin & Son . .	531 72		
Gustavus Wilson . .	375 00		
		$1,645 42	
Elevator repairs: —			
Whittier Machine Co. . .		42 80	
Mason work: —			
John B. Byrne . .	$490 78		
John Delaney . .	1,392 80		
M. X. Larose . .	7 18		
		1,890 76	
Moving walls of Brattle Sq. Building: —			
John Cavanagh & Son Building Moving Co.		415 79	
Painting, glazing, etc.: —			
J. L. P. Ackers . .	$1 50		
C. P. Alberts . .	12 50		
Cambridge Painting Co.	80 25		
M. A. Feeley . .	607 37		
J. J. Foley . . .	42 65		
S. D Hicks & Son .	11 90		
J. Leo McDonald .	76 08		
T. Murphy . . .	2 00		
Geo. W. Wise Co. .	10 80		
		845 05	
Plaster work: —			
Harrington & Howell .	$54 90		
Albert L. Reed . .	3 95		
		58 85	
Plans: —			
C. Herbert McClare . . .		50 00	
Plumbing: —			
E. W. Clark . .	$778 58		
Chas. A. Fallon . .	16 75		
T. W. Good . . .	264 41		
Greene & Co. . .	14 48		
J. J. Long . . .	1 00		
J. T. Phelan . .	89 17		
H. L. Rose . . .	242 27		
W. H. Sweeney . .	31 54		
		1,438 20	
Amounts carried forward . . .		$6,386 87	$6,544 37 $12,500 00

General Government — Continued.

CITY BUILDING ACCOUNT, GENERAL EXPENSES — Continued.

Amounts brought forward . .	$6,386 87	$6,544 37	$12,500 00
For roof and gutter repairs: —			
John J. Blevins . . $13 52			
Howard F. Peak . . 225 62			
	239 14		
		6,626 01	
Repairs to furniture and fixtures: —			
Clark & Mills Electric Co. . .	$6 90		
F. A. Colburn	8 50		
Thos. J. Daly	77 44		
James Grant & Co.	187 35		
Geo. H. Hogan	9 00		
Mrs. M. E. Hogan	6 75		
E. Howard Clock Co. . . .	6 50		
B. E. McDermott & Co. . . .	49 50		
Morss & Whyte	16 17		
Sven Nelson	5 25		
W. A. Snow & Co.	10 00		
Stuart-Howland Co. . . .	1 25		
Worcester Bros.	82 91		
		467 52	
Repairs to heating apparatus: —			
Brock Bros	$95 57		
John B. Byrne	540 49		
M. T. Davidson	23 40		
S. D. Fallon	15 53		
Greene & Co	92 19		
T. H. Kneeland	2 75		
Roberts Iron Works Co. . .	184 79		
S. D. Stockton	4 00		
Inspection of boilers, S. C. Baxter	10 00		
		968 72	
Repairs to lighting apparatus: —			
F. Bryant & Co.	$23 83		
Ernest W. Clark	15 47		
Geo. F. Dickson	4 70		
		44 00	
Recutting and resetting flagging: —			
John B. Byrne	$249 76		
Austin Ford & Son	31 20		
		280 96	
Weather strips: —			
Chamberlin Metal Weather Strip Co.		14 50	
Sundry repairs		9 94	
Supplies: —			
Brushes and dusters: —			
E. T. Bynner . . $16 50			
Worcester Bros. . 17 40			
	33 90		
Furniture and fixtures: —			
F. Bryant & Co. . . $8 15			
Doten-Dunton Desk Co. 55 00			
Amounts carried forward . $63 15	$33 90	$14,956 02	$12,500 00

General Government — Continued.

CITY BUILDING ACCOUNT, GENERAL EXPENSES — Continued.

Amounts brought forward	$63 15	$33 90	$14,956 02	$12,500 00
For Empire Rubber Manufacturing Co.	27 30			
Worcester Bros.	162 93			
		253 38		
Hardware, tools and supplies: —				
Brock Bros.	$6 38			
Brock & Eaton	8 40			
E. T. Bynner	20 50			
Cambridge Sign Co.	1 00			
Chelmsford Foundry Co.	90 00			
W. J. Edwards	4 89			
J. A. Holmes & Co.	3 80			
E. Howard Clock Co.	2 00			
T. H. Kneeland	1 50			
L. A. Stingel	2 85			
J. H. Wyeth & Co.	19 65			
		160 97		
Heating apparatus supplies: —				
Boston Engineers' Supply Co.	$71 96			
M. T. Davidson	11 30			
Roberts Iron Works Co.	9 50			
		92 76		
Ice, Cambridge Ice Co.		75 99		
Lumber and millwork: —				
Wm H. Wood & Co.		95 63		
Sawdust: —				
Geo. G. Page Box Co.		1 50		
Soap: —				
J. H. Corcoran & Co.	$24 00			
G. P. O'Brien	7 60			
		31 60		
Toilet paper: —				
Geo. T. Johnson & Co.		28 36		
Towels: —				
J. H. Corcoran & Co.		8 00		
Water coolers: —				
Brock & Eaton		27 00		
			809 09	
Service transfers: —				
Granite paving blocks, Street Dept.		$9 38		
Electrical work, Electrical Dept., Wire Account		4 20		
			13 58	
Total			$15,778 69	
Amount carried forward				$12,500 00

General Government — Continued.

CITY BUILDING ACCOUNT, GENERAL EXPENSES — Concluded.

Amount brought forward . .		$12,500 00
SUMMARY. EXPENDED.		
For fuel	$4,318 29	
Lighting	2,039 30	
Repairs	8,411 65	
Supplies	809 09	
Miscellaneous	200 36	
Total		15,778 69
Excess of expenditures over appropriation . . .		$3,278 69
Transfers to this account: —		
From Contingent Fund	$3,200 00	
From Armory, Beech Street	225 00	
From Rifle Range	75 00	
From Supt. of Buildings, Salaries	80 00	
From City Building Account, Salaries . . .	125 00	
From Schools, Salaries of Janitors	250 00	
		3,955 00
		$676 31
Transfer from this account to Contingent Fund . .		600 00
Balance relinquished to General Treasury . . .		$76 31

MISCELLANEOUS. (1.7)

POSTAGE AND STATIONERY.

Appropriation			$1,100 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.			
For supplies to sundry departments .	$1,426 03		
EXPENDED.			
For inkstands, Century Inkstand Co. .		$13 20	
Postage: —			
F. M. Small, Superintendent .	$780 00		
Wm. W. Dallinger, Treasurer .	20 00		
		800 00	
Printing: —			
Cambridge Chronicle . . .	$4 25		
John H. Hezlitt	1 75		
		6 00	
Stationery and supplies: —			
Amee Bros.	$7 00		
Fred L. Beunke	130 87		
Amounts carried forward . . .	$137 87	$819 20	$1,100 00

General Government — Concluded.

POSTAGE AND STATIONERY — Concluded.

Amounts brought forward . .	$137 87	$819 20	$1,100 00
For E. T. Bynner	2 10		
The Carter's Ink Co. . .	8 00		
Wm. H. Claflin & Co., Inc. . .	7 88		
Cotton & Gould	393 53		
Cushman & Denison M'f'g Co. .	5 50		
Diamond Paste Co. . . .	5 25		
C. C. Hart	1 05		
Library Bureau	9 00		
M. C. Olson M'f'g Co. . . .	2 75		
		572 93	
Telephone indexes, Arthur F. Elliot .		7 50	
Total			1,399 63
Excess of expenditures over appropriation . .			$299 63
Transfer to this account from Contingent Fund . .			300 00
Balance relinquished to General Treasury . . .			37

2. PROTECTION OF LIFE, HEALTH AND PROPERTY.

POLICE DEPARTMENT (2.1)

SALARIES.

Appropriation		$134,000 00

EXPENDED.

For salaries of Chiefs: —			
Henry J. Cunningham	$268 80		
Frederick B. Pullen	1,731 20		
		$2,000 00	
Deputy Chief, Wm. F. Batchelder		1,500 00	
Captains: —			
Mark J. Folsom	$179 66		
Patrick J Hurley	1,200 55		
John J. McBride	1,400 00		
James E. Murray	1,400 00		
John F Murray	1,400 00		
Frederick B. Pullen	188 16		
		5,768 37	
Lieutenants		6,524 07	
Sergeants		7,072 00	
Patrolmen		94,122 50	
Reserve Officers		8,903 42	
Drivers		5,512 00	
Matrons		723 00	
Pensions: —			
Lothrop J. Cloyes	$1,000 00		
Mark J. Folsom	700 00		
Frederick Apel	546 00		
Edw. F. Belcher	546 00		
Robert T. Hixon	78 00		
Henry C. Jones	546 00		
Benj. McKeen	94 50		
John E. Shaughnessy	426 00		
Wm. H. Graves	223 50		
		4,160 00	
Total			136,285 36
Excess of expenditures over appropriation			$2,285 36
Transfers to this account: —			
From Park Dept.		1,600 00	
From Contingent Fund		750 00	
			2,350 00
Balance relinquished to General Treasury			$64 64

Protection of Life, Health and Property — Continued.

POLICE DEPARTMENT — Continued.

GENERAL EXPENSES.

Appropriation $5,500 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For ambulance service	$150 00
Cloth, etc.	1,130 83
Fee received from county for fixing damage done by dogs . . .	1 00
Court fines (2 3)	4,386 10
	$5,667 93

EXPENDED.

For advertising: —			
Cambridge Chronicle . . .		$1 80	
Badges and repairs, G. W. Burditt .		34 40	
Buttons: —			
D. Evans & Co.	$71 67		
Waterbury Button Co. . . .	71 25		
		142 92	
Bicycle repairs: —			
E H. McDuffee	$3 00		
Jas. F. Rooney	6 10		
		9 10	
Clasps, Gordon Clasp Co. . . .		12 50	
Car tickets: —			
Boston Elevated Railway Co. .		175 00	
Cash expended for sundries: —			
Jas A. Cox	$15 14		
John W. Deehan	5 10		
Patrick J. Hurley	15 70		
John J. McBride	8 02		
James E Murray	26 99		
John F. Murray	17 21		
Michael Neilan	12 65		
F. B. Pullen	20 74		
		121 55	
Cleaning stations: —			
Julia Delaney	$9 90		
Mary McEachern	32 00		
Mary Miller	64 00		
Anna Wright	122 50		
		228 40	
Cloth for uniforms: —			
Thos. W. Talcott	$6 25		
S. Slater & Sons	1,029 23		
		1,035 48	
Collars, O. Elliott Smith . . .		76 80	
Amounts carried forward . . .		$1,837 95	$5,500 00

Protection of Life, Health and Property — Continued.

POLICE DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward		$1,837 95	$5,500 00
For cutting cloth, Hobbs & Warren Co.		1 75	
Clubs, Towne & Co		12 00	
Directories, W. A. Greenough & Co.		28 00	
Disinfectants and insecticide: —			
Wm. B. Hunt & Co.	$4 25		
West Disinfecting Co.	4 92		
		9 17	
Dry Goods, J. H. Corcoran & Co.		1 20	
Dues, Gas Consumers' Association		9 00	
Expressage: —			
H. J. Cunningham	$ 90		
Savage & Son	4 65		
Sawin's Express	2 30		
		7 85	
Fire arms and repairs: —			
Colt's Patent Fire Arms Co.	$120 00		
Iver Johnson Sporting Goods Co.	6 02		
L. L. Phipps & Co.	2 50		
Wm. Read & Sons	62 56		
		191 08	
Furniture, fixtures and repairs: —			
Boston Metallic Bed Co.	$15 00		
Brock Bros.	10 85		
W. J. Coveny & Co.	19 85		
Derby Desk Co.	12 75		
James Grant	5 25		
		63 70	
Hardware, tools and supplies: —			
Brock Bros.	$34 55		
E. T. Bynner	44 42		
H. J. Duffy	8 51		
Peter Gray & Sons	4 00		
F. E. Hewins	20 82		
M. R. Jouett & Co.	2 05		
Middlesex County House of Correction	2 17		
Solshine Manufacturing Co.	1 50		
L. A. Stingel	1 37		
G. H. Worcester & Co.	12 00		
Jas. H. Wyeth & Co.	1 98		
Yerxa & Yerxa	10 20		
		143 57	
Harness and repairs: —			
Chas. E. Berry	$18 45		
M. Cavanagh	10 70		
Hugh McCaffrey	82 75		
Fred D. Norton	4 25		
C. D. Ormes	10 10		
		126 25	
Amounts carried forward		$2,431 52	$5,500 00

Protection of Life, Health and Property — Continued.

POLICE DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward		$2,431 52	$5,500 00
For hay, grain and straw: —			
R. Costello	$38 61		
J. Cushing & Co.	194 58		
Otis S. Brown & Co.	119 46		
		352 65	
Horse, George H. Prescott		350 00	
Horse board, etc.: —			
Fred D Norton	$175 25		
G. F. Whiting & Co.	81 50		
Soden Street Stable	50 00		
		306 75	
Horse clipping: —			
Prospect Stables	$12 00		
Ferris & Co.	9 00		
		21 00	
Horseshoeing: —			
Wm. Balmer	$53 00		
H. T. Barden	22 25		
R. Barry	42 00		
P. J. Callahan	6 00		
John F. Gurry & Sons	48 50		
Thos. Smith & Sons	21 50		
		193 25	
House repairs: —			
Carpentry: —			
C. T. Grames	$18 71		
John T. Mahaffy	3 69		
C Mahoney	10 91		
J. W. McKinnon	83		
	$34 14		
Painting, papering, glazing, varnishing, etc.: —			
J. J. Foley	$10 00		
Geo. H. Hughes	33 70		
	43 70		
Plumbing, John J. Long	7 66		
		85 50	
Ice: —			
Fresh Pond Ice Co.	$59 31		
Independent Ice Co	12 00		
		71 31	
Laundry work: —			
E & R Laundry	$2 07		
Mrs. Annie I. Dow	21 00		
Margaret McCabe	25 24		
		48 31	
Lamps, etc.: —			
Thos J. Daly	$13 23		
Warren W. Scott	9 00		
		22 23	
Amounts carried forward		$3,882 52	$5,500 00

Protection of Life, Health and Property — Continued.

POLICE DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward		$3,882 52	$5,500 00
For lighting: —			
Cambridge Electric Light Co.	$209 49		
Cambridge Gas Light Co.	718 20		
		927 69	
Medicines, drugs, etc: —			
Walter A. Claflin	$6 75		
C. H. Goldthwaite & Co.	4 40		
E. H Patten	14 25		
		25 40	
Moving safe, Hersum & Co.		5 00	
Numbers, chevrons, trimmings: —			
John F. Ford & Co.	$96 05		
Miss Rose Lipp	64 45		
R. Masstrangialo	62 80		
		223 30	
Photographs, F. M. Ellis		23 00	
Professional services: —			
C. Parker Holt, M. D.	$11 00		
H. E. Knowlton, M. D.	3 00		
S. R. Lancaster, M. D.	5 00		
J. P. Nelligan, M. D.	2 00		
T. J. Partridge, M. D.	2 00		
		23 00	
Refunds on minors' license badges		45 05	
Rubber sheeting, A. Cunningham		3 00	
Repairing clocks, E. J. Dunphy		4 00	
Services drilling members of Dept.: —			
Wm. J. Greene		30 00	
Splint and bandages: —			
Buzzell-Flanders Co.		3 11	
Stretcher, Warren H. Dow		1 50	
Stamps, Globe Stamp Works		2 50	
Stationery, printing and typewriter supplies: —			
Fred L. Beunke	$33 55		
Boston Pocket Manual Co.	1 00		
Cambridge Chronicle	6 00		
Caustic-Claflin Co.	51 70		
Cotton & Gould	112 95		
J. A. Cummings Printing Co.	9 05		
J. Frank Facey	46 50		
Smith Premier Typewriter Co.	7 00		
Chas. H. Thurston & Co.	17 15		
		284 90	
Service transfers: —			
Heating buildings: —			
City Building Account	$890 00		
Postage and Stationery Account	42 53		
		932 53	
Amounts carried forward		$6,416 50	$5,500 00

Protection of Life, Health and Property — Continued.

POLICE DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward		$6,416 50	$5,500 00
For telephone attachment: —			
West Disinfecting Co.		1 00	
Telephone service		372 12	
Telephone bracket, The Benbow Co.		4 00	
Use of equipments, National Lancers		6 00	
Use of saddle horse: —			
T. W. Hillier & Co.		9 00	
Wagon and carriage repairs: —			
T. H. Kneeland	$33 75		
Fred D. Norton	15 00		
Chas. Waugh & Co.	125 87		
		174 62	
Wall map of Massachusetts: —			
The Scarborough Co.		3 00	
Total			$6,986 24
Excess of expenditures over appropriation			$1,486 24
Transfer to this account from Contingent Fund			1,500 00
Balance relinquished to General Treasury			$13 76

FIRE DEPARTMENT. (2.2)

SALARIES.

Appropriation			$79,000 00
EXPENDED.			
For salary of Chief, Thos. J. Casey	$2,000 00		
Assistant Chief, N. W. Bunker	1,400 00		
		$3,400 00	
Permanent men		58,947 37	
Call men		14,691 59	
Pension pay rolls: —			
Elliot E. Alley	$72 00		
James Cunningham	79 03		
Arthur C. Day	72 00		
Benj. D. Foss	69 68		
Edw. E. Priest	516 00		
Jas. H. Skehan	516 00		
Jas. Jefferson	99 00		
		1,423 71	
Total			78,462 67
Surplus of appropriation			$537 33
Transfer from this account to Contingent Fund			500 00
Balance relinquished to General Treasury			$37 33

Protection of Life, Health and Property — Continued.

FIRE DEPARTMENT — Continued.

GENERAL EXPENSES.

Appropriation		$16,000 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For horses	$120 00	
Horse board	125 00	
	$245 00	

EXPENDED.

For apparatus and repairs: —			
American Locomotive Co.	$52 45		
American Roller Bearing Co.	177 75		
Jas. M. Baker	12 00		
Boston Belting Co.	46 56		
Boston Woven Hose & Rubber Co.	707 61		
Cornelius Callahan Co.	56 50		
Campbell Iron Works	64 83		
Wm Elliott & Co.	69 70		
F. Ivers & Son	25 15		
Manchester Locomotive Works	1,275 00		
Peter McMurray	30 00		
Joseph Palmer	29 40		
Scrannage Bros.	129 77		
H. J Shaw	85 32		
Chas. Waugh & Co.	1,345 89		
		4,107 93	
Brooms, brushes, dusters: —			
B. Lacroix & Son		50 50	
Cap ornaments, Merriam & Xavier		7 50	
Damage to sleigh: —			
Frank P. Merrill		2 75	
Directory, W. A. Greenough & Co.		8 00	
Disinfectant: —			
Knox & Morse Co.	$7 50		
A. M. Winchester	15 30		
		22 80	
Dues, Gas Consumers' Association		9 00	
Expressage and teaming: —			
American Express Co.	$3 70		
Frank F. Duvey	2 50		
Savage & Son	6 50		
Sawins' Express	4 30		
		17 00	
Fuel, Metropolitan Coal Co.		2,083 27	
Amounts carried forward		$6,308 75	$16,000 00

Protection of Life, Health and Property — Continued.

FIRE DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$6,308 75	$16,000 00
For furniture, furnishings and repairs, and bedding: —			
J. H. Corcoran & Co. . . .	$80 41		
Louis W. Cutting Co. . . .	18 96		
Frank T. Gookin	75		
Worcester Bros.	65 83		
		165 95	
Hardware, tools and repairs, and supplies: —			
Brock Bros.	$31 08		
Brock & Eaton	4 00		
E. T. Bynner	261 76		
Cambridge Hardware Co. . .	3 20		
Casey, Bigley & Co. . . .	23 10		
Clark & Mills Electric Co. .	40		
Gould Packing Co.	1 50		
J. A. Holmes & Co. . . .	91 36		
H. N. Hovey & Co . . .	8 63		
J. A. Hunter	50		
M. R. Jouett & Co.	3 50		
Jas. H. Wyeth & Co. . . .	7 38		
		436 41	
Harness and repairs: —			
Chas. E. Berry	$174 90		
M. Cavanagh	15 35		
Owen Doherty	75 60		
John J. Hawkes	6 50		
M. M Hawkes	3 25		
F. Ivers & Son	10 05		
Wm. H. Roberts	39 60		
		325 25	
Hay, grain and straw: —			
J. Cushing & Co.	$4,359 51		
Enos & Holmes	218 65		
E. R. Luke & Co.	315 62		
		4,893 78	
Horses, Welch & Hall Co. . . .		974 90	
Horseshoeing: —			
Wm Balmer	$74 75		
R Barry	118 50		
Wm Bell	74 25		
D. L Bolger Horseshoeing Co. .	87 75		
P. J Callahan	13 00		
W. F. Garrett	114 00		
Wm. M. Gordon	64 75		
John F. Gurry & Sons . . .	154 00		
T. Hickey	58 00		
D. F. McCarthy & Co. . . .	54 75		
Bernard Smith	72 00		
Thos. Smith & Sons . . .	73 50		
		959 25	
Amounts carried forward . . .		$14,064 29	$16,000 00

Protection of Life, Health and Property — Continued.

FIRE DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$14,064 29	$16,000 00
For house repairs: —			
Carpentry: —			
Alfred Allcock . .	$272 89		
D. K. Dinsmore . .	39 25		
W. H. Norris . .	116 96		
John Quin & Son . .	170 25		
	599 35		
Drain work, Samuel McCulloch .	26 66		
Heating apparatus repairs: —			
Brock & Eaton . .	$4 20		
Pennell & Co. . . .	6 10		
C. W. Phelps . . .	3 95		
	14 25		
Mason work: —			
Thos. Leahy & Son .	$159 55		
Joseph J. Pickett . .	24 25		
	183 80		
Painting, Jos. J. Foley . . .	148 50		
Plumbing: —			
D. J. Keefe & Co. . .	$2 45		
H. L. Rose . . .	22 43		
Thos C. Sweeney & Co.	6 45		
	31 33		
Roof repairs, John J. Blevins . .	47 80		
		1,051 69	
Ice: —			
Cambridge Ice Company . .	$20 80		
Fresh Pond Ice Co. . . .	26 30		
Independent Ice Co. . . .	4 50		
		51 60	
Installing light: —			
Clark & Mills Electric Co. . .		4 20	
Insignias, Miss B. Goldsmith . .		7 50	
Labor as per pay roll . . .		156 00	
Laundry work: —			
University City Laundering Co. .		249 11	
Lighting: —			
Cambridge Electric Light Co. .	$294 05		
Cambridge Gas Light Co. . .	537 50		
		831 55	
Lumber, Geo. W. Gale Lumber Co. .		28 35	
Oil, polish, etc.: —			
Cochrane Chemical Co. . .	$21 96		
J. Wesley Edmonds & Son. . .	30 60		
Alden Speare's Sons Co. . .	10 12		
Standard Oil Co.	85 43		
Geo. Wm. Waite Co. . . .	4 50		
		152 61	
Amounts carried forward . . .		$16,596 90	$16,000 00

Protection of Life, Health and Property — Continued.

FIRE DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$16,596 90	$16,000 00
For printing: —			
Cambridge Chronicle Co. . .	$32 50		
J. A Cummings Printing Co.	12 04		
		44 54	
Service transfers: —			
Heating buildings: —			
City Building Account . .	$375 00		
Postage: —			
Postage and Stationery Account	1 70		
		376 70	
Shavings, C. W. H. Moulton & Co. .		39 00	
Soap powder: —			
J. C. Davis Soap Co. . . .	$37 50		
Chas R. Teele Estate . . .	19 80		
		57 30	
Storage of ladder truck: —			
F. Ivers & Son		19 50	
Teaming apparatus, Frank F. Duvey		6 00	
Telephone service		50 44	
Use of men and horses: —			
James Culhane	$55 00		
Chas. W. Dailey	30 00		
John Herlihy	103 00		
Jas. P. McSorley	306 50		
Otis S. Neale	106 00		
M. O'Sullivan	11 00		
John M. Riley	190 00		
Michael Shea	61 00		
		862 50	
Total			18,052 88
Excess of expenditures over appropriation . . .			$2,052 88
Transfer to this account from Contingent Fund .			2,075 00
Balance relinquished to General Treasury . . .			$22 12

FIRE DEPARTMENT (2.2)

NEW ENGINE HOUSE, WARD 10.

Appropriation	$25,000 00

EXPENDED.

For advertising and printing: —			
Cambridge Chronicle . . .		$11 84	
Building contract, Walsh Bros. .		15,264 00	
Freight, Boston & Maine R. R. . .		28 00	
Amounts carried forward . . .		$15,303 84	$25,000 00

Protection of Life, Health and Property — Continued.

NEW ENGINE HOUSE, WARD 10 — Concluded.

Amounts brought forward		$15,303 84	$25,000 00
For heating and ventilating contract: —			
Laskey, Whitten & Jackson		655 50	
Laying driveway, setting edgestones, etc.: —			
Labor as per pay rolls		251 56	
Laying gas pipe: —			
Cambridge Gas Light Co.		1 50	
Plans, Charles R. Greco		500 00	
Plumbing, Higgins & Co.		377 06	
Stone: —			
Gutter stone, S. & R. J. Lombard	$65 84		
Edgestone, S. & R. J. Lombard	142 59		
Paving blocks, S. & R. J. Lombard	262 50		
		470 93	
Service transfer: —			
Supply, Water Works Department		15 90	
Teaming, sundry persons		46 25	
Total			17,622 54
Surplus of appropriation			$7,377 46
Additional appropriation			5,000 00
Balance relinquished to General Treasury			$12,377 46

FIRE AND POLICE TELEGRAPH. (2.2a)

ELECTRICAL DEPARTMENT, WIRE ACCOUNT.

SALARIES.

Appropriation			$6,500 00
EXPENDED.			
For salaries of: —			
Inspector of Wires, T. C. O'Hearn		$1,000 00	
Assistants		5,873 00	
Clerk, W. H. Sheridan		299 00	
Total			7,172 00
Excess of expenditures over appropriation			$672 00
Transfers to this account: —			
From Contingent Fund		$600 00	
From Salary of Night Operator		50 00	
From Street Lighting, General Expenses		50 00	
			700 00
Balance relinquished to General Treasury			$28 00

Protection of Life, Health and Property — Continued.

ELECTRICAL DEPARTMENT, WIRE ACCOUNT — Continued.

SALARY OF NIGHT OPERATOR.

Appropriation		$500 00
EXPENDED.		
For salary of Night Operator: —		
D. J. Campbell	$450 00	
Total		450 00
Surplus of appropriation		$50 00
Transfer from this account to Wire Account, Salaries		50 00

GENERAL EXPENSES.

Appropriation			$4,500 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.			
For labor and materials	$110 35		
EXPENDED.			
For apparatus and repairs and electrical supplies: —			
American Electrical Works	$25 50		
Cambridge Plating Co.	6 25		
Clark and Mills Electric Co.	249 40		
Crosby Steam Gage & Valve Co.	41 00		
Thos. J. Daly	18 73		
W. E. Decrow	442 03		
Edes Manufacturing Co.	54 66		
Electric Gas Lighting Co.	106 54		
Electric Storage Battery Co.	31 08		
F. M. Ferrin	166 00		
Seth W. Fuller Co.	3 35		
Holtzer-Cabot Electric Co.	3 35		
Kellogg Switchboard & Supply Co.	4 57		
Pettingell-Andrews Co.	894 24		
Simplex Electrical Co	1,529 68		
Geo. M Stevens Co.	7 25		
Stuart-Howland Co.	14 95		
Sundry persons	5 39		
		$3,603 97	
Bicycle repairs: —			
Benjamin McArthur	$9 58		
J. L. Moseley	50		
		10 08	
Building platform, W. Fillmore Co.		40 00	
Carpentry, Thomas Powers		12 00	
Car tickets: —			
Boston Elevated Railway Co.		110 00	
Amounts carried forward		$3,776 05	$4,500 00

Protection of Life, Health and Property — Continued.

ELECTRICAL DEPARTMENT, WIRE ACCOUNT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$3,776 05	$4,500 00
For cash expended for sundries: —			
F. S. Johnson	$1 20		
T. C. O'Hearn	75		
	1 95		
Cotton, ribbon, etc.: —			
J. H. Corcoran & Co. . . .		46	
Cleaning, Mrs. Annie Pierce . .		1 30	
Expressage: —			
American Express Co. . . .	$1 70		
Danehy's Express	50 81		
Dodge Express Co. . . .	6 75		
Sawin's Express	9 25		
Sundry persons	1 05		
	69 56		
Furniture, furnishings and repairs: —			
Boston Metallic Bed Co. . .	$4 00		
Boston Plate and Window Glass Co.	3 82		
Boston Woven Hose Co. . .	1 20		
E. P. Donahue	3 50		
Worcester Bros.	46 85		
	59 37		
Glazing, Geo. E. Sawyer & Co. .		2 00	
Hardware, tools and repairs, and supplies: —			
Brock Bros.	$77 81		
E. T. Bynner	4 50		
Daniel H. Dean	3 75		
W. J. Edwards	12 48		
Peter Gray & Sons	4 50		
Greene & Co.	24 32		
J. D. Jewett Co.	9 15		
J. Leo McDonald	75		
Morss & Whyte	65 00		
C. W. H. Moulton & Co. . .	7 25		
Edwin R Sage	6 37		
U. S. Fire and Police Telegraph Co.	1 00		
A. J. Wilkinson & Co. . . .	4 49		
	221 37		
Harness and repairs, and horse clothing: —			
Hugh McCaffrey	$6 35		
Thos. McMahon	26 75		
Ordway, Loring & Ricker .	3 50		
Wm. H. Roberts	14 00		
Joseph A. Ryan	2 85		
	53 45		
Horse board, John J. Corkery . .		300 00	
Horseshoeing, Wm. Balmer . .		45 25	
Laundry work, F. L. Churchill .		12 53	
Amounts carried forward . . .		$4,543 29	$4,500 00

Protection of Life, Health and Property — Continued.

ELECTRICAL DEPARTMENT, WIRE ACCOUNT. GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$4,543 29	$4,500 00
For lighting: —			
Cambridge Electric Light Co. .		17 05	
Lumber and mill work: —			
Geo. W. Gale Lumber Co. . .	$7 73		
Ira G. Hersey	288 65		
		296 38	
Oil, paints, etc.: —			
Cochrane Chemical Co.	$2 15		
W. J. Edwards	14 71		
M. Myers	4 80		
Wadsworth, Howland & Co. . .	17 20		
Sundry persons	1 88		
		40 74	
Piping steam whistle, Greene & Co. .		158 00	
Register paper, Chas. E. Perry & Co.		105 25	
Rope, Harrington, King & Co. . .		4 38	
Rubber gloves: —			
C. J Bailey & Co.	$9 90		
Stoughton Rubber Co. . . .	13 50		
		23 40	
Service transfers: —			
Horse board, Fire Department .	$125 00		
Supplies, Postage and Stationery Account	16 80		
		141 80	
Stamps, Estate of H. C. Dimond & Co.		4 91	
Stationery, printing, etc.: —			
C. S. Binner Corporation . .	$15 50		
J. A. Cummings Printing Co. .	7 63		
J. Frank Facey	54 00		
Globe-Wernicke Co	6 00		
Harvard Co-operative Society .	9 90		
Sundry persons	1 30		
		94 33	
Telephone service		66 84	
Traveling expenses, T. C. O'Hearn .		84 50	
Varnishing case, J. J. Foley . .		10 00	
Wagon and carriage repairs: —			
T H. Kneeland	$223 49		
A. H. Rollins	5 08		
Chas. Waugh & Co.	18 97		
		247 54	
Total			5,838 41
Excess of expenditures over appropriation . . .			$1,338 41
Transfer to this account from Contingent Fund . .			1,350 00
Balance relinquished to General Treasury . . .			$11 59

Protection of Life, Health and Property — Continued.

HEALTH DEPARTMENT. (2.4)

SALARIES.

Appropriation			$12,000 00
EXPENDED.			
For salaries of: —			
Medical Inspector, Edwin Farnham, M. D.		$3,000 00	
Clerk, James B. Soper		1,200 00	
Secretary, Grace E. Wyeth		800 00	
Sanitary Inspectors: —			
John A. Jackson	$981 00		
Chas. A. Lincoln	981 00		
Geo. W. White	9 00		
		1,971 00	
Inspector of Provisions, Joseph L. Johnson		1,000 00	
Plumber, John McCormick		981 00	
Driver, Richard M. O'Brien		950 00	
Bacteriologist, J. R. Sennott, M. D.		1,080 00	
School Inspectors: —			
F. J. Barnes, M. D.	$100 00		
Wm. H. Clancy, M. D.	200 00		
Ambrose Crowley, M. D.	43 66		
John F. Fair, M. D.	46 62		
P. M. Fitzsimons, M. D.	43 66		
Wm. E. Fleet, M. D.	200 00		
C. M. Hutchinson, M. D.	156 34		
Myron L. King, M. D.	156 34		
T. J. Leahy, M. D	200 00		
E. A. McCarthy, M. D.	100 00		
A. Moll, M. D.	78 17		
J. P. Nelligan, M. D.	200 00		
		1,524 79	
Total			$12,506 79
Excess of expenditures over appropriation			$506 79
Transfers to this account: —			
From Contingent Fund		$195 00	
From Diphtheria Hospital		210 00	
From Small-Pox Hospital		120 00	
			525 00
Balance relinquished to General Treasury			$18 21

GENERAL EXPENSES.

Appropriation			$8,700 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.			
For care of sick, by cities and towns	$875 66		
Expenses of contagious disease: — Commonwealth of Massachusetts	1,192 70		
	$2,068 36		
Amount carried forward			$8,700 00

Protection of Life, Health and Property — Continued.

HEALTH DEPARTMENT, GENERAL EXPENSES — Continued.

Amount brought forward . .			$8,700 00
	EXPENDED.		
For advertising: —			
Cambridge Chronicle . . .	$19 58		
Cambridge Tribune . . .	25 25		
Times Publishing Co. . . .	15 00		
		$59 83	
Blanket, J. H Corcoran & Co. . .		3 50	
Board and care, Cambridge Hospital		5,486 79	
Boxes, Place Box Co. . . .		2 00	
Burial, H. D. Litchfield . . .		14 50	
Carriage and wagon repairs: —			
T. H. Kneeland	$19 50		
Chas. Waugh & Co. . . .	88 25		
		107 75	
Car tickets: —			
Boston Elevated Railway Co. .		450 00	
Carriage hire, Prospect Stables .		46 75	
Carpentry, C. S. Newcomb . .		4 13	
Cash expended for burying animals: —			
Edwin Farnham, M. D. . . .		98 00	
Certified copy, E. O. Childs . .		91	
Culture boxes, John Quin & Son .		6 00	
Directory, W. A. Greenough & Co. .		3 50	
Disinfectant, Geo. A Miller . .		9 00	
Expressage: —			
American Express Co. . . .	$4 15		
Butland & Son	2 10		
Sawin's Express	2 70		
		8 95	
Hardware, tools and supplies: —			
Brock Bros	$8 05		
Brock & Eaton	5 15		
E. T. Bynner	19 63		
Moynahan & Co.	3 37		
Yerxa & Yerxa	5 21		
		41 41	
Harness and repairs, and horse clothing: —			
M. Cavanagh	$7 50		
James Curry	19 70		
		27 20	
Horse board and storage: —			
G. F. Whiting & Co. . . .		300 00	
Horse clipping, Ferris & Co. . .		5 00	
Horse dentistry, C. B. Fagan . .		3 00	
Amounts carried forward . . .		$6,678 22	$8,700 00

Protection of Life, Health and Property — Continued.

HEALTH DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$6,678 22	$8,700 00
For horseshoeing: —			
W. F. Garrett	$23 00		
John F. Gurry & Sons . . .	17 50		
		40 50	
Ice, Cambridge Ice Co. . . .		6 45	
Medical aid: —			
City of Boston	$33 43		
City of Somerville	197 72		
Town of Brookline . . .	23 56		
Town of Hudson	105 64		
		360 35	
Medical apparatus and repairs, and supplies: —			
Buzzell-Flanders Co. . . .	$3 50		
J. H. Fitzgerald	212 50		
Johnson & Johnson . . .	384 00		
Kuhn Formaldehyde Generator Co.	50 00		
F. H. Thomas Co.	36 62		
United States Mailing Case Co. .	3 17		
Wm. C. Wright	120 30		
		810 09	
Medicines, drugs, etc: —			
W. H. Frazier	$3 50		
Albert W. Kidder	12 00		
G. A. Miller	3 50		
J. A. S. Woodrow	10 89		
		29 89	
Painting, Chas. E. McMenimen .		31 00	
Plates: —			
New York Department Store Co.		1 20	
Refrigerator, Worcester Bros. .		10 75	
Refreshments, M. R. Jones . .		5 00	
Searching records: —			
Wm V. Thompson . . .		5 00	
Service transfers: —			
Postage and Stationery Account .	$58 22		
Cemetery Department . . .	4 00		
		62 22	
Serving notices, Oscar D. Capen .	$3 32		
W. Y. Gross	1 00		
John F. Kelly, Treasurer . .	19 36		
Walter C. Wardwell . . .	18 98		
Chas. G. Whitman . . .	3 48		
		46 14	
Stamp, Pneumatic Hand Stamp Co. .		66	
Amounts carried forward . . .		$8,087 47	$8,700 00

Protection of Life, Health and Property — Continued.

HEALTH DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward		$8,087 47	$8,700 00
For stationery, printing, etc. :—			
Cambridge Chronicle	$155 50		
Cambridge Tribune	1 75		
Caustic-Claflin Co.	64 10		
Cotton & Gould	3 25		
J. A. Cummings Printing Co.	21 80		
J. Frank Facey	41 80		
J. L. Fairbanks & Co.	10 08		
Library Bureau	3 38		
Times Publishing Co.	20 50		
		322 16	
Telephone service		144 69	
Typewriter :—			
Remington Typewriter Co.		57 75	
Use of coach, Prospect Stables		6 50	
Use of horse and buggy :—			
G. F. Whiting & Co.		18 00	
Total			8,636 57
Surplus of appropriation relinquished to General Treasury			$63 43

DIPHTHERIA HOSPITAL.

Appropriation			$8,500 00
	EXPENDED.		
For salaries of :—			
Physician, Felix F. McGirr, M. D.	$1,200 00		
Matron, Mildred Sanborn	720 00		
Nurses :—			
Alice Hawkins	460 00		
Melinda Hodgins	460 00		
Olive Inch	460 00		
Minnie Simpson	460 00		
House-man, James Reagan	728 00		
Cocks	281 15		
House servants	324 35		
Laundresses	222 86		
		$5,316 36	
Burial, H. D. Litchfield		11 50	
Clothing, Jordan, Marsh Co.		19 40	
Employment bureau fees :—			
Sundry persons		2 25	
Expressage, Sawin's Express		1 20	
Fuel, Metropolitan Coal Co.		309 95	
Amounts carried forward		$5,660 66	$8,500 00

Protection of Life, Health and Property — Continued.

HEALTH DEPARTMENT, DIPHTHERIA HOSPITAL — Continued.

Amounts brought forward		$5,660 66	$8,500 00
For furniture, furnishings, and household supplies: —			
G. W. Bent & Co.	$40 25		
Brock & Eaton	34 08		
Geo. F. Dickson	1 70		
Jordan, Marsh Co.	145 36		
Worcester Bros.	47 08		
		268 47	
Gauze, Griswoldville M'f'g Co.		62 53	
Hardware and supplies: —			
Brock & Eaton	$14 54		
Moynahan & Co.	2 47		
Sundry persons	2 35		
		19 36	
Ice, Fresh Pond Ice Co.		62 19	
Laundry work: —			
Julia J. Brogan	$3 30		
Mary Brown	11 85		
		15 15	
Lighting, Cambridge Gas Light Co.		114 90	
Manure, Martin O Hare		5 00	
Medical and surgical apparatus: —			
Randall-Faichney Co.	$7 10		
F. H. Thomas Co.	38 00		
		45 10	
Medicines, drugs, etc. —			
American Oxygen Association	$5 00		
J. H. Fitzgerald	28 63		
Albert W. Kidder	28 89		
G. A. Miller	30 37		
		92 89	
Plants, Joseph Breck & Sons		2 00	
Professional services: —			
Howard H. Smith, M. D.		10 00	
Repairing heating apparatus: —			
Brock & Eaton	$58 94		
Moynahan & Co.	8 60		
		67 54	
Repairing roof, etc.: —			
Howard F. Peak		76 84	
Service transfer: —			
Burial fees, Cemetery Dept.		14 00	
Subsistence supplies: —			
Estate of Wm. T. Gibson	$160 51		
Hall & Cole	2 50		
Manhattan Market Co.	5 10		
Amounts carried forward	$168 11	$6,516 63	$8,500 00

Protection of Life, Health and Property — Continued.

HEALTH DEPARTMENT, DIPHTHERIA HOSPITAL — Concluded.

Amounts brought forward . .	$168 11	$6,516 63	$8,500 00
For John P. Nelligan	149 38		
Robert Printon	58 21		
Arthur Ward	506 34		
Yerxa & Yerxa	748 99		
		1,631 03	
Telephone service		46 56	
Total			8,194 22
Surplus of appropriation			$305 78
Transfer from this account to Health Dept., Salaries			210 00
Balance relinquished to General Treasury . . .			$95 78

SMALL-POX HOSPITAL.

Appropriation			$1,000 00
EXPENDED.			
For services of care-taker :—			
John B. Griffin		$784 27	
Fuel :—			
P. F. Gayton & Co. . . .	$4 20		
Metropolitan Coal Co. . . .	63 75		
		67 95	
Oil and other supplies, E. P. Clark .		11 50	
Repairing chimney :—			
Maurice J. McDonald . . .		6 00	
Repairing range :—			
Phillips Bros. & Co. . . .		1 10	
Total			870 82
Surplus of appropriation			$129 18
Transfer from this account to Health Dept., Salaries .			120 00
Balance relinquished to General Treasury . . .			$9 18

LAND FOR HOSPITAL.

Appropriation			$6,500 00
EXPENDED.			
For services in J. F. O'Brien gravel bank case :—			
B. W. Woodard		$35 00	
Total			35 00
Surplus of appropriation relinquished to General Treasury			$6,465 00

Protection of Life, Health and Property — Continued.

HEALTH DEPARTMENT — Continued.

INSPECTOR OF MILK AND VINEGAR.

SALARIES.

Appropriation	$1,375 00

EXPENDED.

For salaries of: —		
Inspectors: —		
Wm. C. Lane	$157 74	
Philip P. Sharples	742 26	
Deputies: —		
Edward W. Abbot	99 00	
Clemence J. Hogan	364 50	
Total		1,363 50
Surplus of appropriation relinquished to General Treasury		$11 50

GENERAL EXPENSES.

Appropriation	$300 00

EXPENDED.

For apparatus and repairs, and supplies: —			
Eimer & Amend	$5 07		
Harvard Co-operative Society	2 80		
International Instrument Co.	93 99		
Herman Kohlbusch	7 50		
Whitall-Tatum Co.	14 51		
Sundry persons	2 47		
		126 34	
Car tickets: —			
Boston Elevated Railway Co.		50 00	
Cash expended for sundries: —			
P. P. Sharples		6 14	
Chemicals and drugs: —			
J. H Fitzgerald	$4 76		
E. and F. King & Co.	15 08		
Sundry persons	2 00		
		21 84	
Expressage, sundry persons		4 84	
Service transfer: —			
Postage and Stationery Account		4 41	
Amounts carried forward		$213 57	$300 00

Protection of Life, Health and Property — Continued.

HEALTH DEPARTMENT — Concluded.

INSPECTOR OF MILK AND VINEGAR, GENERAL EXPENSES — Concluded.

Amounts brought forward		$213 57	$300 00
For stationery, printing, etc.: —			
Cambridge Chronicle	$73 09		
J. A. Cummings Printing Co.	8 56		
		81 65	
Wall map of Massachusetts: —			
The Scarborough Co.		3 00	
Total			298 22
Surplus of appropriation relinquished to General Treasury			$1 78

INSPECTOR OF ANIMALS.

Appropriation			$800 00
EXPENDED.			
For salary of: —			
Inspector of Animals, C. E. Hadcock		$700 00	
Medicines and drugs: —			
Frank N Abare	$1 90		
Walter A. Claflin	35 10		
A. Cunningham Drug Co.	26 74		
H. F Hawthorne	3 40		
L. Albert Smith	2 50		
		69 64	
Total			769 64
Surplus of appropriation relinquished to General Treasury			$30 36

CEMETERY DEPARTMENT. (2.5)

SALARIES.

Appropriation			$17,000 00
EXPENDED.			
For salaries of: —			
Superintendent, Geo. D. Ford		$1,800 00	
Bookkeeper, John J. McKenzie		916 67	
Clerk, Edw. J. Braudon		150 00	
Foreman, Henry C. Hobbs		995 50	
Laborers		11,039 43	
Total			14,901 60
Surplus of appropriation			$2,098 40
Transfers from this account: —			
To Cemetery Dept., General Expenses		$1,000 00	
To Contingent Fund		1,000 00	
			2,000 00
Balance relinquished to General Treasury			$98 40

Protection of Life, Health and Property — Continued.

CEMETERY DEPARTMENT — Continued.

GENERAL EXPENSES.

Appropriation	$3,000 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For brick and slate graves	$508 00	
Burials	4,283 00	
Care	2,058 13	
Chapel	12 00	
Foundations	1,031 71	
Grading and sodding	95 02	
Interest on Cemetery Fund	2,226 43	
Myrtle graves	15 00	
Sundries	370 24	
		$10,599 53
Sales of lands and lots		4,237 00
		$14,836 53

EXPENDED.

For advertising and printing :—			
Cambridge Chronicle		$16 89	
Barrels :—			
Middlesex Co. House of Correction		15 00	
Bricks, New England Brick Co.		27 00	
Brooms, Stephen Adams		3 00	
Carriage hire :—			
J. J. Callahan	$6 00		
John J. Donahue	5 00		
Frank P. Merrill	5 00		
Soden St. Stable	5 00		
G. F. Whiting & Co.	8 00		
		29 00	
Car tickets :—			
Boston Elevated Railway Co.		25 00	
Casket boxes :—			
Wm. L. Lockhart & Co.		12 90	
Certified copies of deeds :—			
E. O. Childs, Register		1 94	
Clothing, Oak Hall Clothing Co.		56 80	
Decorating :—			
New England Decorating Co.		24 00	
Destroying moths :—			
G. T. Pierce & Son		98 00	
Amounts carried forward		$309 53	$3,000 00

Protection of Life, Health and Property — Continued.

CEMETERY DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$309 53	$3,000 00
For directory, W. A. Greenough & Co.		3 50	
Disinfectant, C. W. Lerned & Co. .		6 00	
Expressage :—			
C. P. Callahan	$1 50		
Danehy's No. and Old Cambridge Express	4 60		
		6 10	
Filling, sundry persons . . .		634 97	
Fuel, Metropolitan Coal Co. . .		75 00	
Hardware, tools and repairs, and supplies : —			
Bigelow & Dowse	$29 20		
Jos. Breck & Sons	6 00		
E T. Bynner	83 85		
H. H. Harvey	28 29		
T. H. Kneeland	15 93		
Henry A. Wheeler & Co. . .	25 50		
James H. Wyeth & Co. . . .	1 13		
		189 90	
Harness and repairs : —			
John J. Hawkes	$8 50		
M. M. Hawkes	2 50		
		11 00	
Hay, grain, etc., E. R. Luke & Co. .		52 22	
Horseshoeing, Wm. Balmer . .		18 50	
Hose, Stoughton Rubber Co. . .		21 25	
Lumber and cement : —			
Wm. H. Wood & Co. . . .		123 25	
Manure, P. J. Curley		171 53	
Opening safe, L. L. Bates & Co. .		6 75	
Pipe and fittings : —			
Braman, Dow & Co. . . .	$5 51		
Waldo Bros.	3 10		
		8 61	
Plan of lots, Arthur F. Gray . .		152 00	
Plants, P. O'Brien & Son . . .		82 50	
Rent of typewriter : —			
Thorp & Martin Co. . . .		4 00	
Repairing stable roof : —			
Howard F. Peak		10 93	
Amounts carried forward . . .		$1,887 54	$3,000 00

Protection of Life, Health and Property — Continued.

CEMETERY DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$1,887 54	$3,000 00
For repairing ventilator: —			
Moore & Hadley		19 00	
Service transfers: —			
Supplies, Postage and Stationery Account	61 00		
Watering driveway, Street Department . . .	51 46		
		112 46	
Slate vaults, etc: —			
H D. Litchfield	$17 10		
Thos. P. Royle	295 16		
		312 26	
Sods, James Gray		71 25	
Stationery, printing and office supplies: —			
Amee Bros.	$12 15		
Baker, Vawter Co. . .	36 29		
J. A Cummings Printing Co. .	18 41		
J. Frank Facey	2 00		
Frost & Adams Co. . . .	7 96		
Globe-Wernicke Co. . . .	36 50		
Smith Premier Typewriter Co. .	7 00		
Times Publishing Co. . . .	3 50		
Edw. W. Wheeler	38 75		
		162 56	
Stone, T. A. Callaghan . . .		165 28	
Stone dust, James Gray . . .		194 28	
Stone work: —			
Alex. McDonald & Son . . .	$27 00		
Geo. R. Sands	8 00		
		35 00	
Teaming, Jeremiah Sullivan .		45 75	
Telephone service . . .		72 84	
Typewriter: —			
Smith Premier Typewriter Co.		99 00	
Total			3,177 22
Excess of expenditures over appropriation . . .			$177 22
Transfer to this account from Cemetery Department, Salaries			1,000 00
			$822 78
Transfer from this account to Contingent Fund . .			800 00
Balance relinquished to General Treasury .			$22 78

Protection of Life, Health and Property — Continued.

INSPECTORS. (2.6)

SUPERINTENDENT OF BUILDINGS.

SALARIES.

Appropriation	$5,900 00

EXPENDED.

For salary of:—			
Supt. of Buildings, Thos. F. Tracy		$2,000 00	
Inspectors:—			
J. W. Emery	$1,200 00		
W. A. Ford	1,000 00		
L. D. Garfield	1,150 00		
		3,350 00	
Clerk, Wm. H. Sheridan		469 25	
Total			5,819 25
Surplus of appropriation			$80 75
Transfer from this account to City Buildings, General Expenses			80 00
Balance relinquished to General Treasury			75

GENERAL EXPENSES.

Appropriation			$900 00
For advertising, Cambridge Tribune		$4 50	
Appraisal of boiler:—			
Roberts Iron Works Co.		5 00	
Badges, Allen, Doane & Co.		3 00	
Bicycle repairs, J. L. Moseley		4 50	
Care and repair of tower clocks:—			
Chas. H. Chandler, Treas.	$26 00		
A. K. Jones	52 00		
J. B. Mace	26 00		
A. S. Thayer	12 50		
		116 50	
Car tickets:—			
Boston Elevated Railway Co.		150 00	
Carpentry:—			
F. B. Furbish	$10 00		
John Quin & Son	11 49		
		21 49	
Cash expended for sundries:—			
John J. Roach		3 21	
Amounts carried forward		$308 20	$900 00

Protection of Life, Health and Property — Continued.

SUPERINTENDENT OF BUILDINGS, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$308 20	$900 00
For directory, W. A Greenough & Co.		3 50	
Expressage, sundry persons . .		30	
Horse board, G. F. Whiting & Co. .		12 45	
Photographs:—			
DeBerge Chemical & Photo Co. .		4 00	
Portable electric light:—			
Stuart-Howland Co. . . .		2 25	
Service transfer:—			
Postage and Stationery Account .		25 52	
Serving notice, D. J. Moynahan .		2 48	
Stamp pad:—			
Office Specialty Manufacturing Co.		75	
Stationery, printing:—			
Fred L. Beunke	$ 25		
C. S. Binner Corporation . .	4 08		
Cambridge Chronicle . . .	234 10		
J. A. Cummings Printing Co. .	40 98		
Dennison Manufacturing Co. . .	5 00		
J. Frank Facey	118 75		
Globe-Wernicke Co . . .	10 15		
Lord's Electric Print . . .	2 75		
		416 06	
Telephone service		93 20	
Use of horse and carriage:—			
T. W. Hillier & Co. . . .		28 00	
Wall map of Massachusetts:—			
The Scarborough Co. . . .		3 00	
Total			899 71
Surplus of appropriation relinquished to General Treasury			29

INSPECTORS. (2.6)

PLUMBERS' EXAMINERS' DEPARTMENT.

Appropriation			$100 00
EXPENDED.			
For examinations:—			
John Crawford	$42 00		
J. T. Phelan	45 80		
		$87 80	
Total			87 80
Surplus of appropriation relinquished to General Treasury			$12 20

Protection of Life, Health and Property — Continued.

INSPECTORS. (2.6)

SEALER OF WEIGHTS AND MEASURES.

SALARIES.

Appropriation		$1,850 00
EXPENDED.		
For salaries of: —		
Sealer of Weights and Measures, Geo. H. Dinan	$1,000 00	
Deputy, John C. Connors	750 00	
	$1,750 00	
Assistants: —		
Stephen H. Duffy	$40 80	
Francis H Nugent	1 80	
Jas. E. O'Connell	1 20	
Daniel C. Sweeney	38 70	
	82 50	
Total		1,832 50
Surplus of appropriation relinquished to General Treasury		$17 50

GENERAL EXPENSES.

Appropriation			$550 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.			
For fees for sealing	$766 91		
Fees for weighing	63 06		
	$829 97		
EXPENDED.			
For acid, Malden Specialty Co.		$17 95	
Advertising, Cambridge Chronicle		5 91	
Expressage, sundry persons		40	
Equipment: —			
Brock & Eaton	$6 22		
Estate of H. C. Dimond & Co.	24 70		
The Fairbanks Co.	32 04		
Moore & Hadley	50		
		63 46	
Service transfers: —			
Horse board, Street Department	$216 00		
Horseshoeing, Street Department	11 40		
Postage and Stationery	6 23		
		233 63	
Amounts carried forward		$321 35	$550 00

Protection of Life, Health and Property — Continued.

SEALER OF WEIGHTS AND MEASURES, GENERAL EXPENSES — Concluded.

Amounts brought forward . .			$321 35	$550 00
For office expenses: —				
Car tickets: —				
Boston Elevated Railway Co. .		20 00		
Stationery, printing, etc: —				
Caustic-Claflin Co. . .	$5 00			
J. A Cummings Printing Co. . . .	6 37			
Geo. H. Dinan . .	71			
J. Frank Facey . .	5 25			
Chas. W. Sever & Co. .	24			
Chas H. Thurston . .	75			
		18 32		
Telephone service . .		29 60		
Typewriting: —				
A. H. Edgerly . .		3 50		
			71 42	
Repairing wagons and harness: —				
Harness: —				
John J. Hawkes . .	$ 75			
M. M. Hawkes . .	2 00			
		2 75		
Wagons: —				
T. H. Kneeland . .	$38 00			
Middlemas Bros. . .	8 75			
		46 75		
			49 50	
Total				442 27
Surplus of appropriation relinquished to General Treasury				$107 73

MILITIA AND ARMORIES. (2.7)

ARMORY, BEECH STREET.

Appropriation				$350 00
EXPENDED.				
For lighting: —				
Cambridge Gas Light Co. . .		$53 90		
Cambridge Electric Light Co. .		54 61		
			108 51	
Plumbing, S. D. Fallon . . .			12 30	
Sign, David L. Mullen . . .			4 00	
Total				124 81
Surplus of appropriation				$225 19
Transfer from this account to City Buildings . .				225 00
Balance relinquished to General Treasury . . .				19

Protection of Life, Health and Property — Concluded.

MILITIA AND ARMORIES — Concluded.

RIFLE RANGE

Appropriation			$650 00
EXPENDED.			
For services as keeper, Anson J. Webb		$75 00	
Carpentry: —			
Chas. H. Callahan	$69 44		
W. H. Norris	350 81		
		420 25	
Repairing electric bells: —			
Warren D. Scott		10 50	
Use of targets: —			
Bay State Military Rifle Association		37 75	
Total			543 50
Surplus of appropriation			$106 50
Transfer from this account to City Buildings			75 00
			$31 50
Transfer to this account from City Buildings			150 00
			$181 50
Transfer from this account to Addition to Rindge Manual Training School			170 00
Balance relinquished to General Treasury			$11 50

CAR TICKETS TO AND FROM RIFLE RANGE.

Appropriation			$300 00
EXPENDED.			
For tickets: —			
Boston Elevated Railway Co.	$150 00		
Boston & Maine Railroad	74 31		
Lexington & Boston Railway Co.	75 00		
		$299 31	
Total			299 31
Surplus of appropriation relinquished to General Treasury			69

3. PUBLIC CHARITY.

ALMSHOUSES. (3.4)

CITY FARM, LABOR.

Appropriation		$4,200 00
EXPENDED.		
For labor on farm: —		
Farmer, James Walsh	$777 50	
Employees	3,379 75	
Total		4,157 25
Surplus of appropriation relinquished to General Treasury		$42 75

SUPPLIES.

Appropriation			$800 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.			
For farm produce	$4,286 47		
EXPENDED.			
For baskets, Whittier Woodenware Co.		$3 50	
Hardware, tools and supplies: —			
Jos. Breck & Sons	$1 65		
Brock Bros.	3 15		
F. X. Massè	2 40		
		7 20	
Hay, grain, etc.: —			
Clark Bros.	$50 90		
J. Cushing & Co.	172 07		
Arthur F. Coolidge	21 55		
		244 52	
Horse clipping, Fred D. Norton		2 00	
Horseshoeing, E. P. Griffin		23 00	
Hotbed frames: —			
A. W. Hastings & Co.		100 00	
Lumber: —			
John S. Clary Lumber Co.	$14 56		
Wm. H. Wood & Co.	62 00		
		76 56	
Paint, oil and putty: —			
Carpenter-Morton Co.		40 87	
Pigs: —			
Cutter Bros.	$33 00		
N. C. Skilton	120 00		
		153 00	
Rent, Mercantile Wharf Corporation		40 00	
Seeds, plants, etc.: —			
Schlegel & Fottler Co.		109 35	
Total			800 00

Public Charity — Continued.

ALMSHOUSES.

CITY HOME.

SALARIES.

Appropriation		$7,300 00

EXPENDED.

For salaries of: —			
Superintendent, Chas. E. Goodrow	$1,450 00		
Assistant Superintendent, Samuel F. Norris	777 86		
		$2,227 86	
Sundry house employees		4,965 25	
Organist, Carrie M. Walker		100 00	
Total			7,293 11
Surplus of appropriation relinquished to General Treasury			$6 89

GENERAL EXPENSES.

Appropriation	$12,000 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For barrels	$23 32
Board	969 54
Grease and bones	36 69
Junk	7 50
Lead	81
Paint and nails	1 15
	$1,039 01

EXPENDED.

For advertising and printing: —			
Cambridge Chronicle	$2 33		
Globe Newspaper Co.	8 25		
		$10 58	
Boots, shoes and repairs: —			
H. E. Butler	$61 95		
Daniel J. Kelleher	9 65		
F. X. Massé	55 60		
Anthony L. Mottlá	6 40		
Wm. Myers	24 35		
		157 95	
Burials, Horace D. Litchfield		36 75	
Car tickets: —			
Boston Elevated Railway Co.		100 00	
Cash expended, C. E. Goodrow: —			
Cash to inmates	$73 90		
Expressage	50		
Services of clergyman	86 00		
Amounts carried forward	$160 40	$305 28	$12,000 00

Public Charity — Continued.

CITY HOME, GENERAL EXPENSES — Continued.

Amounts brought forward	$160 40	$305 28	$12,000 00
For tuning piano	2 50		
Zion Herald	2 50		
Sundries	4 50		
Transportation	10 70		
		180 60	
Clothing, dry goods and bedding :—			
Brown, Durrell & Co.	$246 18		
Commonwealth of Massachusetts	27 00		
Creighton Outfitters	3 75		
Farley, Harvey & Co.	269 80		
F. X. Massé	79 20		
Leopold Morse & Co.	10 00		
John H. North Co.	26 75		
J. B. Pearson Co.	52 50		
		715 18	
Clock repairs :—			
R. W. LeBaron	$39 73		
J. B. Shurtleff	1 00		
		40 73	
Directory, W. A. Greenough & Co.		3 50	
Electrical supplies :—			
Electric Gas Lighting Co.		10 72	
Expressage : —			
Bancroft's Express		11 05	
Fire brick and clay : —			
Berry & Ferguson		7 25	
Fuel : —			
Consumers' Co-operative Coal Co.	$1,317 32		
Metropolitan Coal Co.	252 56		
		1,569 88	
Furniture, furnishings and repairs, and household supplies : —			
Brock Bros.	$51 62		
F. A. Colburn	2 00		
Walker & Pratt Manufacturing Co.	5 20		
Geo. O. Whipple	229 93		
Whittier Woodenware Co.	41 47		
G. H. Worcester & Co.	3 24		
		333 46	
Hardware, tools and repairs, and supplies : —			
Jos. Breck & Sons	$6 78		
Brock Bros.	75 80		
Burditt & Williams Co.	2 50		
E. T. Bynner	10 00		
Ernest W. Clark	5 10		
A. W. Hastings & Co.	38 80		
A. Lubbe	26 40		
F. X. Massé	29 84		
Amounts carried forward	$195 22	$3,177 65	$12,000 00

Public Charity — Continued.

CITY HOME, GENERAL EXPENSES — Continued.

Amounts brought forward . .	$195 22	$3,177 65	$12,000 00
For C. W. H. Moulton & Co. . .	8 00		
Daniel J. Sullivan	1 20		
Walworth Manufacturing Co. .	1 10		
White Sewing Machine Co. . .	8 90		
		214 42	
House repairs: —			
Heating apparatus and repairs: —			
A. M. Morton & Co. . $4 22			
Walker & Pratt Manufacturing Co. . . 8 50			
	12 72		
Plumbing: —			
Ernest W. Clark . . $72 57			
T. W. Good . . . 9 80			
John H. Stevens & Co. 10 61			
	92 98		
Plaster work: —			
Harrington & Howell . . .	68 50		
Painting, papering, etc: —			
Edward O'Hara . . $7 33			
Michael Pitts & Son . 179 95			
	187 28		
Roof repairs, George Douglas .	69 33		
Windows, A. W. Hastings & Co. .	7 87		
		438 68	
Ice. Cambridge Ice Co. . . .		169 50	
Insecticide and disinfectant: —			
R. S. Downe	$10 00		
A. M. Winchester	10 00		
		20 00	
Lighting, Cambridge Gas Light Co. .		183 70	
Lumber: —			
E. R. Dix	$29 45		
Wm. H. Wood & Co. . . .	155 98		
		185 43	
Medicines, drugs, chemicals, etc: —			
John A. Tupper		267 63	
Medical and surgical apparatus and instruments: —			
Codman & Shurtleff . . .	$3 19		
C. H. Goldthwaite & Co. . .	5 65		
Powers & Johnson	10 00		
		18 84	
Oils, paints, etc.: —			
Carpenter-Morton Co. . . .	$153 29		
Geo. L. Vocell	18 75		
		172 04	
Repairing telephone, R. W. Le Baron		5 08	
Rubber goods, Robert Josselyn .		14 06	
Amounts carried forward . . .		$4,867 03	$12,000 00

Public Charity — Continued.

CITY HOME, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$4,867 03	$12,000 00
For service transfers: —			
Burial fees, Cemetery Department	$20 00		
Postage and Stationery Account .	19 00		
Sealer of Weights and Measures .	1 79		
		40 79	
Signs, Louis D. Morse . . .		4 50	
Soap, powder, etc.: —			
Rand & Byam	$102 00		
John Reardon & Sons . . .	15 39		
		117 39	
Spectacles, Orb Optical Co. . .		4 00	
Stamps and ink, Allen Bros. . .		1 05	
Stationery, printing, etc.: —			
Cotton & Gould	$37 22		
J. L. Fairbanks & Co. . . .	5 00		
		42 22	
Station dials, Hersey M'f'g Co. .		2 00	
Subscriptions: —			
Jas. W Hunnewell . . .	$21 00		
M. Whalen	7 80		
		28 80	
Subsistence supplies: —			
Bowman & Co.	$128 13		
Boyd, Dalton & Co. . . .	809 23		
Guy C. H. Carlton . . .	70 13		
Cheney, Upham & Co. . . .	3 25		
B. P Clark & Co. . . .	20 25		
Eastern Salt Co. . . .	16 10		
R. S. Edwards & Co. . . .	12 00		
G. A. Emery & Son . . .	2 50		
Fleischmann & Co. . . .	23 40		
F. C. Gemeiner	320 88		
H. M. Gidden	50 50		
Gillmore & Co.	379 00		
Geo O. Girard	81 10		
Globe Co.	237 60		
C. F. Hathaway	84		
J. A. Hathaway & Co. . . .	236 32		
Hazeltine & Co.	276 82		
Hecker-Jones-Jewell Milling Co. .	29 00		
J. A. Holmes & Co. . . .	5 90		
Home Mills Cereal Co. . . .	25 00		
A. F. Huston	4 00		
A. J. Lovell & Co.	36 82		
J D. Mead & Co.	9 50		
National Biscuit Co., Kennedy's Biscuit Works	34 25		
H. M. Nelligan	938 08		
John P. Nelligan	178 60		
Oakdale Manufacturing Co. . .	19 80		
C O'Brien	2,099 73		
Amounts carried forward . . .	$6,048 73	$5,107 78	$12,000 00

Public Charity — Continued.

CITY HOME, GENERAL EXPENSES — Concluded.

Amounts brought forward	$6,048 73	$5,107 78	$12,000 00
For J. H Pierce & Co.	22 15		
Sands, Taylor & Wood	154 50		
Joseph Silva	193 75		
N. C. Skilton & Co.	58 28		
Frederick C. Small & Co.	29 92		
Howard W. Spurr Coffee Co.	15 00		
John P. Squire & Co.	94 29		
B. S. Thompson & Co.	26 60		
Leonard A Treat	6 82		
John A. Tupper	15 70		
J. Fred Vaughan	36 56		
Vermont Manufacturing Co.	19 80		
A. H. Weeks & Co.	6 00		
Chas. F. Wood	10 61		
Warren F. Witherell Co.	21 88		
		6,760 59	
Telephone service		125 63	
Use of hearse: —			
Horace D. Litchfield		6 00	
Total			12,000 00

OUTDOOR RELIEF. (3.5)

SALARIES.

Appropriation			$2,700 00
EXPENDED.			
For salary of: —			
Secretary, D. P. Muzzey		$1,500 00	
Clerk, Addie M. Benson		777 50	
Driver, Michael O'Reagan		477 50	
Total			2,755 00
Excess of expenditures over appropriation			$55 00
Transfer to this account from Contingent Fund			55 00

GENERAL EXPENSES.

Appropriation			$20,500 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.			
For board	$470 93		
Burials	60 17		
Fuel	3 77		
Groceries	12 42		
Medical aid	75 32		
Amounts carried forward	$622 61		$20,500 00

Public Charity — Continued.

OUTDOOR RELIEF, GENERAL EXPENSES — Continued.

Amounts brought forward	$622 61		$20,500 00
For money turned in on pay roll	6 50		
Stamps	37		
Support	1,707 88		
Transportation	3 00		
	$2,340 36		

EXPENDED.

For aid to sundry persons: —			
Cash pay roll		$362 41	
By cities and towns: —			
City of Beverly	$6 00		
Boston	1,564 42		
Chelsea	69 75		
Everett	35 75		
Fitchburg	25 72		
Haverhill	78 00		
Malden	326 20		
New Bedford	63 00		
Newton	79 10		
Somerville	519 45		
Waltham	49 76		
Woburn	68 68		
Worcester	4 00		
		2,889 83	
Town of Andover	$267 19		
Blackstone	27 00		
Brookline	8 30		
Cohasset	78 42		
Danvers	8 00		
Douglas	30 00		
Edgartown	9 75		
Georgetown	41 10		
Leominster	46 00		
Norwood	40 00		
Revere	10 00		
Salisbury	103 44		
		669 20	
Ambulance, Geo. E. Francis		6 00	
Advertising, Cambridge Chronicle		1 02	
Baskets, Whittier-Woodenware Co.		5 84	
Board and care: —			
Cambridge Hospital	$120 02		
Carney Hospital	401 43		
Charity for Mothers and Infants	25 00		
The Childrens' Hospital	28 00		
Mrs. Mary Hamilton	65 98		
Mrs. Annie E. Hockins	4 08		
Chester D. Holmes	83 75		
Amounts carried forward	$728 26	$3,934 30	$20,500 00

Public Charity — Continued.

OUTDOOR RELIEF, GENERAL EXPENSES — Continued.

Amounts brought forward . .	$728 26	$3,934 30	$20,500 00
For Holy Ghost Hospital . . .	26 57		
Hospital Cottages for Children .	48 07		
Mass. General Hospital . . .	9 00		
Mass. Hospital for Dipsomaniacs .	726 74		
Mass. Hospital for Epileptics .	853 77		
Mass. School for Feeble-minded .	2,753 21		
Mass. State Sanatorium . . .	93 86		
St Mary's Lying-In Hospital .	5 00		
Thos F. Smith	95 18		
Mrs. Geo. H. Sweet . . .	42 71		
		5,382 37	
Board and care of insane: —			
Danvers Insane Hospital . .	$420 65		
Medfield Insane Asylum . .	1,713 20		
Northampton Insane Hospital .	42 71		
Taunton Insane Hospital . .	416 92		
Westboro Insane Hospital . .	1,052 23		
Worcester Insane Asylum . .	793 93		
Worcester Insane Hospital . .	3,672 60		
		8,112 24	
Board and care: —			
Commonwealth of Massachusetts, at State Hospital . . .		1,398 22	
Binding, David Farquhar . . .		1 10	
Burials: —			
Horace D. Litchfield . . .	$169 72		
Mrs. Sarah E. Whitney . . .	11 15		
		180 87	
Carpentry, C. T. Grames . . .		1 00	
Carriage hire, M. J. Fairbanks . .		5 50	
Car tickets: —			
Boston Elevated Railway Co. .	$300 00		
Boston & Maine Railroad . .	51 75		
		351 75	
Clock repairs, Miller Bros. . .		3 50	
Clothing, dry goods: —			
Farley, Harvey & Co. . . .	$4 00		
F. X. Massé	7 00		
		11 00	
Cash expended, Samuel F. Norris .		7 67	
Directories: —			
W. A. Greenough & Co. . . .	$10 50		
Sampson, Murdock Co. . . .	6 00		
		16 50	
Disinfectant, West Disinfecting Co.		12 58	
Electrical work, F. Bryant & Co. .		4 66	
Engrossing resolutions: —			
M. F. Crowley	$7 00		
P. Crowley	5 00		
		12 00	
Amounts carried forward . . .		$19,435 26	$20,500 00

Public Charity — Continued.

OUTDOOR RELIEF, GENERAL EXPENSES — Continued.

Amounts brought forward		$19,435 26	$20,500 00
For expressage: —			
Savage & Son	$2 35		
Buzzell-Flanders Co.	25		
		2 60	
Furniture, The Fred Macey Co.		10 00	
Ice, Central Ice Co.		7 80	
Lighting: —			
Cambridge Electric Light Co.	$19 45		
Cambridge Gas Light Co.	11 00		
		30 45	
Lighting apparatus repairs: —			
Geo. F. Dickson		8 00	
Medicines, drugs, etc.: —			
F. N. Abare	$17 50		
Geo. H. Brayton	55		
Carpenter-Morton Co.	14 31		
J. F. Cahill	5 35		
Gilbert S. Chipman	50		
A. Cunningham Drug Co.	42 60		
J. H. Fitzgerald	20 25		
W. H. Frazier	4 95		
C. H. Gaffney	2 85		
E. C. Gove	16 95		
L. E. Hubbard	9 40		
Wm. B. Hunt & Co.	20 10		
Frank K. Lynch	1 45		
Geo A Miller	1 15		
Maurice O'Donnell	12 05		
John B. O'Hara	1 65		
E. H Patten	12 20		
Reeves Bros.	2 57		
Reycroft Pharmacy	2 75		
A. C. Saunders	6 85		
Chas. E. Scallan	2 45		
Samuel H. Talbot	1 45		
John A. Tupper	7 90		
		207 43	
Medical and surgical apparatus, and supplies and instruments: —			
Buzzell-Flanders Co.	$19 36		
C. H. Goldthwaite & Co.	42 00		
		61 36	
Nursing, etc., Catherine McGurk		5 00	
Paper, sacks, etc., Wm. H Claflin & Co.		6 23	
Professional services: —			
L. L. Bryant, M. D	$50 00		
J. P. Nelligan, M. D.	65 00		
Chas. J. Walsh, M. D.	20 00		
		135 00	
Amounts carried forward		$19,909 13	$20,500 00

Public Charity — Continued.

OUTDOOR RELIEF, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$19,909 13	$20,500 00
For services as attendants: —			
Florence Barrett	$2 00		
John T. Cook	15 00		
Warren H Dow	22 00		
Wm. Graves	2 00		
Mabel L. Greeley	2 00		
Wm. Harvey	2 00		
Ralph R. Rice	2 00		
Wm. H. Robertson . . .	2 00		
Geo. E Sherman	20 52		
Ellen S. Stewart	12 00		
Dennis J. Sullivan	20 52		
		102 04	
Service transfers: —			
Ambulance fees, Police Dept. .	$153 00		
Burial fees, Cemetery Dept. . .	147 00		
Postage and Stationery Account .	54 00		
		354 00	
Services as witness, Warren Ivers .		5 00	
Serving notice, Walter C. Wardwell		11 80	
Stamps and repairs, Allen Bros. .		80	
Stationery, printing and typewriter supplies: —			
Cotton & Gould	$117 00		
J. A. Cummings Printing Co. .	57 36		
H. O. Houghton & Co. . . .	300 00		
The Fred Macey Co. . . .	5 62		
Pocket Manual Co. . . .	1 00		
		480 98	
Soap, Rand & Byam		9 87	
Subsistence supplies: —			
Blake Bros. & Co	$1 50		
Boyd, Dalton & Co. . . .	438 73		
Bowman & Co.	9 45		
J. Cushing & Co.	10 60		
Eastern Salt Co	1 71		
R. S. Edwards & Co. . . .	84 51		
F. C. Gemeiner	134 50		
H. M. Gidden	208 80		
Gillmore & Co.	185 45		
Hecker-Jones-Jewell Milling Co. .	190 25		
J. A. Holmes & Co. . . .	10 75		
H. N. Hovey & Co. . . .	1 50		
C. O'Brien	15 00		
Sands, Taylor & Wood . . .	72 50		
N. C. Skilton & Co. . . .	18 57		
John P. Squire & Co. . . .	89 25		
Abraham Zion	44 00		
		1,517 07	
Telephone service		169 48	
Amounts carried forward . . .		$22,560 17	$20,500 00

Public Charity — Continued.

OUTDOOR RELIEF, GENERAL EXPENSES — Concluded.

Amounts brought forward . .	$22,560 17	$20,500 00
For typewriter repairs: —		
Hammond Typewriter Co. . .	6 16	
Wagon repairs, T. H. Kneeland .	40 65	
Washing, Annie Wright . . .	1 40	
Total		22,608 38
Excess of expenditures over appropriation . .		$2,108 38
Transfer to this account from Contingent Fund . .		2,110 00
Balance relinquished to General Treasury . . .		$1 62

CITY PHYSICIAN.

SALARY.

Appropriation	$1,500 00

EXPENDED.

For salary of City Physician: —		
Wm. G. Brousseau . . .	$1,500 00	
Total		1,500 00

MISCELLANEOUS. (3.9)

STATE AID.

Appropriation	$25,000 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

From the Commonwealth of Massachusetts in reimbursement, in part, of the amount the City has advanced in conformity to the laws of the State, to volunteers and their families, or other dependents of volunteers of the army and navy: —		
For military aid . . .	$330 50	
State aid	13,196 50	
Burials of soldiers and sailors	735 00	
From sundry persons: —		
Board	384 50	
Money uncalled for on pay-rolls . . .	390 00	
	$15,036 50	
Amount carried forward . .		$25,000 00

Public Charity — Continued.

STATE AID — Continued.

Amount brought forward . .			$25,000 00
	EXPENDED.		
For salary of clerk: —			
Eben W. Pike	$500 00		
Clerical services, Olive A. Hasting .	30 50		
		$530 50	
Military aid	$736 00		
State aid	13,273 00		
Soldiers and sailors' aid . . .	8,795 00		
		22,804 00	
Aid: —			
City of Chelsea	$2 00		
City of Marlborough . . .	10 88		
Town of Whitman	20 00		
		32 88	
Board and care: —			
Mrs. Calista H. Bullard . . .	$27 00		
Carney Hospital	15 00		
Fannie Klucken	388 56		
Medfield Insane Asylum . . .	73 60		
Helen I Umbehend . . .	22 86		
Westboro Insane Hospital . .	42 71		
Worcester Insane Asylum . .	42 71		
Worcester Insane Hospital . .	94 25		
		706 69	
Burials: —			
Edwin L. Derby	$35 00		
Geo. E. Everett & Co. . . .	35 00		
C. H. Faunce	35 00		
W. A. Flaherty & Son . . .	35 00		
David Fudge & Son . . .	35 00		
Lewis Jones & Son	35 00		
Jos. J. Kelley & Son . . .	105 00		
H. D. Litchfield	210 00		
A. E. Long & Son	70 00		
James Mullen	35 00		
Jas. F. Mullen	35 00		
Shea Bros.	35 00		
Wyeth Bros.	35 00		
		735 00	
Car tickets: —			
Boston Elevated Railway Co. .		20 00	
Carriage hire, M. J. Fairbanks .		3 00	
Cash expended for transportation: —			
Eben W. Pike		1 00	
Directory, W. A. Greenough & Co. .		4 00	
Expressage, Hazlett's Express .		50	
Fuel: —			
Bay State Fuel Co. . . .	$46 75		
Clark Bros.	79 35		
Amounts carried forward . . .	$126 10	$24,837 57	$25,000 00

Public Charity — Concluded.

STATE AID — Concluded.

Amounts brought forward . .	$126 10	$24,837 57	$25,000 00
For Coleman Bros.	39 55		
J. A. McCarron	1 70		
George Richardson	3 78		
		171 13	
Medicines, J. H. Fitzgerald . .		2 50	
Professional services: —			
Wm. G. Brousseau, M. D. . .	$46 00		
T. J. Partridge, M. D. . . .	8 00		
Willard A. Putnam, M. D. . .	2 00		
C. T. Weeks, M. D. . . .	12 00		
		68 00	
Service transfers: —			
Overseers of the Poor: —			
Board	$416 97		
Grave	5 00		
Medicine . . .	35		
	$422 32		
Postage and Stationery Account .	8 30		
Ambulance removals, Police Dept.	9 00		
		439 62	
Shoes, M. R. Menezes . . .		3 00	
Stationery, printing: —			
Cambridge Chronicle . . .	$3 50		
John D. Collins	2 00		
		5 50	
Supplies: —			
E. A. Carney	$2 00		
W. M. Gould	2 00		
Woodman & Milliken . . .	102 00		
Yerxa & Yerxa	19 00		
		125 00	
Use of ambulance, Chas. W. Dailey .		5 00	
Total			25,657 32
Excess of expenditures over appropriation . .			$657 32
Transfer to this account from Contingent Fund . .			675 00
Balance relinquished to General Treasury . . .			$17 68

4. PUBLIC WAYS AND WASTES.

ADMINISTRATION. (4.1)

ENGINEERING DEPARTMENT.

SALARIES.

Appropriation			$9,500 00
EXPENDED.			
For salaries of: —			
City Engineers: —			
L. M. Hastings	$1,608 87		
Jas. W. Pierce	1,391 13		
		$3,000 00	
Assistants		5,260 32	
Clerks: —			
Mary E. Rowen	$390 00		
Frances R. Leonard	69 25		
		459 25	
Total			8,719 57
Surplus of appropriation			$780 43
Transfer from this account to Engineering Dept., General Expenses			300 00
Balance relinquished to General Treasury			$480 43

GENERAL EXPENSES.

Appropriation			$700 00
EXPENDED.			
For binding: —			
Cotton & Gould	$18 50		
J. H. H. McNamee Co.	8 00		
		26 50	
Carpentry, W. H. Norris		2 99	
Car tickets: —			
Boston Elevated Railway Co.		275 00	
Cash expended for expressage: —			
L. M. Hastings		45	
Cotton cloth and needles: —			
Louis W. Cutting Co.		13 67	
Directory, Sampson, Murdock & Co.		6 00	
Expressage: —			
Sawin's Express	$2 50		
Sundry persons	70		
		3 20	
Amounts carried forward		$327 81	$700 00

Public Ways and Wastes — Continued.

ENGINEERING DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$327 81	$700 00
For hardware, tools and supplies: —			
E. T. Bynner		14 57	
Lumber, Geo. W. Gale Lumber Co. .		3 67	
Photographic goods, etc.: —			
J. L. Moseley	$10 64		
Chas. E. Moss	4 32		
Spaulding Print Paper Co. . .	6 11		
Whitney & Son	2 12		
		23 19	
Repairing instruments, etc.: —			
Greene & Co.	$1 05		
G. G. Ledder	51 30		
James Maitland	3 81		
H. J. Shaw	1 35		
		57 51	
Service transfer: —			
Postage and Stationery Account		34 80	
Stamps: —			
Pneumatic Hand Stamp Co. . .		3 50	
Stationery, printing, and drawing materials: —			
E T. Bynner	$5 25		
Cambridge Chronicle . . .	11 75		
Cotton & Gould	71 30		
J. A Cummings Printing Co. . .	30 18		
J. Frank Facey	10 00		
John H. Ford	70 50		
Frost & Adams Co. . . .	92 45		
Lufkin Rule Co.	16 32		
E. G. Soltmann	16 42		
F. S. Webster Co.	2 00		
		326 17	
Subscriptions: —			
Engineering News Publishing Co.	$5 00		
Engineering Record . . .	3 00		
Municipal Engineering Co. . .	2 00		
		10 00	
Telephone service		95 41	
Wall map of Massachusetts: —			
The Scarborough Co. . . .		3 00	
Wedge, John Quin & Son . . .		4 50	
Sundries		1 22	
Total			905 35
Excess of expenditures over appropriation . . .			$205 35
Transfer to this account from Engineering Dept., Salaries			300 00
Balance carried to General Treasury			$94 65

Public Ways and Wastes — Continued.

ADMINISTRATION. (4.1)

SALARIES OF SUPERINTENDENT OF STREETS AND CLERKS.

Appropriation			$4,200 00
EXPENDED.			
For salaries of: —			
Superintendents: —			
Geo. M. Clukas	$1,666 66		
John T. Shea	327 96		
		1,994 62	
Clerks: —			
Henry P. Fielding	$1,226 05		
Maude E. Foster	520 00		
Rose E. Manning	496 67		
		2,242 72	
Total			4,237 34
Excess of expenditures over appropriation			$37 34
Transfer to this account from Boston Bridges, Salaries			50 00
Balance relinquished to General Treasury			$12 66

OPENING, GRADING AND WIDENING STREETS. (4.2)

GRADE CROSSING, PRISON POINT STREET.

Appropriation			$40,000 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.			
For amount received on account of abolition of grade crossing, Prison Point St.			
From Commonwealth of Masssachusetts	$17,531 89		
From Boston & Maine R. R.	22,468 11		
	$40,000 00		
EXPENDED.			
For executions of court: —			
Mary Anne Linehan, Executrix	$2,500 00		
J. Frank Wellington	40,000 00		
		$42,500 00	
Searching records, Wm. V. Thompson		15 00	
Services of experts: —			
John J. Ahern	$50 00		
Wellington Fillmore	300 00		
L. M. Hannum	50 00		
Amounts carried forward	$400 00	$42,515 00	$40,000 00

Public Ways and Wastes — Continued.

GRADE CROSSING, PRISON POINT STREET — Concluded.

Amounts brought forward . .	$400 00	$42,515 00	$40,000 00
For W. J. McLean	75 00		
Wm. N. Young	75 00		
		550 00	
Total			43,065 00
Excess of expenditures over appropriation . . .			$3,065 00
Additional appropriations			3,065 00

OPENING, GRADING AND WIDENING STREETS. (4.2)

LAND DAMAGES.

Appropriation			$5,038 45
EXPENDED.			
For Bridge Street: —			
Examining title, Wm. V. Thompson		$15 00	
Dudley Street: —			
Land and damage: —			
John F. O'Brien	$400 00		
Anna C Parker	25 00		
		425 00	
Fairview and Oxford Avenues: —			
Examining titles, Geo. D. Wildes .		20 00	
Hilliard Street: —			
Examining title, Wm. V. Thompson		18 00	
Laurel Street: —			
Land and damage: —			
Mary F. Mahady . . .	$1,000 00		
Manfred A. Schaffer . . .	600 00		
		1,600 00	
Madison Street: —			
Land and damage, Mary E. and Rose A. Duffy		125 00	
Warland Street: —			
Examining title, Wm. V. Thompson	$25 00		
Land and damage, Edw. L. Plummer, Guardian	3,600 00		
		$3,625 00	
Wright Street: —			
Examining title, Wm. V. Thompson	$11 00		
Land and damages: —			
Walter Ela, Trustee . . .	204 35		
Mary R. Cosgrove . . .	150 00		
		365 35	
Total			6,193 35
Excess of expenditures over appropriation . . .			$1,154 90
Additional appropriation			4,596 00
Balance carried to General Treasury			$3,441 10

Public Ways and Wastes — Continued.

OPENING, GRADING AND WIDENING STREETS. (4.2)

STREET CONSTRUCTION, LAUREL STREET.

Appropriation			$1,904 00
EXPENDED.			
For labor, as per pay-roll		$805 57	
Hay, grain and straw: —			
J. Cushing & Co.		119 57	
Stone: —			
Crushed stone, Waltham Trap Rock Co.	$132 78		
Edgestone, S. & R. J. Lombard	366 19		
		498 97	
Total			1,424 11
Surplus of appropriation relinquished to General Treasury			$479 89

OPENING, GRADING AND WIDENING STREETS. (4.2)

STREET CONSTRUCTION, MADISON STREET AND OTHERS.

Appropriation			$29,600 00
EXPENDED.			
For labor, as per pay-rolls		$11,653 67	
Bricks, Parry Brick Co.		427 70	
Fuel: —			
Clark Bros.	$6 00		
Consumers' Coal Co.	97 07		
Metropolitan Coal Co.	8 00		
		111 07	
Gravel and freight: —			
Boston & Maine R. R.	$394 50		
Estate of John McGinnis	72 00		
Peter Perrault	4 50		
Josephine Stone	95 00		
		566 00	
Hardware, tools, etc.: —			
Ames Plow Co.	$9 90		
Joseph Breck & Sons	81 09		
Brock Bros.	3 35		
E. T. Bynner	13 50		
Colonial Supply Co.	13 15		
		120 99	
Amounts carried forward		$12,879 43	$29,600 00

Public Ways and Wastes — Continued.

STREET CONSTRUCTION, MADISON STREET AND OTHERS — Concluded

Amounts brought forward . .		$12,879 43	$29,600 00
For hay, grain and straw: —			
J. Cushing & Co.	$495 09		
Enos & Holmes	23 50		
E R. Luke & Co.	307 23		
		825 82	
Lighting: —			
F. X. Massé	$14 10		
Thos. R. Nevins	50 43		
A. F. Scott	3 00		
Standard Oil Co.	11 00		
Union Glass Co.	23 00		
		101 53	
Stone: —			
Crushed stone, Waltham Trap Rock Co.	$1,060 07		
Edgestone, S. & R. J. Lombard .	4,066 51		
Field stone, sundry persons . .	733 68		
Granite flagging, S. & R. J. Lombard	141 94		
Granite paving blocks, S. & R. J. Lombard	5,827 50		
Gutter stone, S. & R. J. Lombard .	2,427 71		
		14,197 41	
Sundries: —			
Engine oil, Alden Speare's Sons Co.	$13 25		
Oat meal, F. X. Massé . . .	7 00		
		20 25	
Teaming, sundry persons . . .		1,575 00	
Total			29,599 44
Surplus of appropriation relinquished to General Treasury			56

OPENING, GRADING AND WIDENING STREETS. (4.2)

STREET CONSTRUCTION, SOMERVILLE AVENUE AND OTHERS.

Appropriation	$15,227 65

EXPENDED.

For labor, as per pay-rolls . . .	$4,930 46	
Freight, Boston & Maine R. R. . .	211 21	
Hay, grain, and straw: —		
J. Cushing & Co.	206 04	
Oil, Standard Oil Co.	30 85	
Amounts carried forward . . .	$5,378 56	$15,227 65

Public Ways and Wastes — Continued.

STREET CONSTRUCTION, SOMERVILLE AVENUE AND OTHERS — Concluded.

Amounts brought forward . .		$5,378 56	$15,227 65
For stone: —			
Crushed stone, Waltham Trap Rock Co.	$203 01		
Edgestone, S & R. J. Lombard .	60 06		
Granite flagging, S. & R. J. Lombard	299 97		
Granite paving blocks, S. & R. J. Lombard	8,268 00		
		8,831 04	
Teaming, sundry persons . . .		1,017 50	
Total			15,227 10
Surplus of appropriation relinquished to General Treasury			55

OPENING, GRADING AND WIDENING STREETS. (4.2)

BOARD OF SURVEY.

Appropriation			$125 00
EXPENDED.			
For salary of clerk, John McDuffie .		$75 00	
Advertising, Cambridge Chronicle		51 37	
Car tickets: —			
Boston Elevated Railway Co. .		5 00	
Rent of typewriter: —			
Thorp & Martin Co. . . .		8 00	
Service transfer: —			
Postage and Stationery Account .		5 11	
Stamp, Pneumatic Hand Stamp Co.		1 50	
Stationery and printing: —			
Cambridge Chronicle . . .	$8 50		
J. A. Cummings Printing Co. .	9 52		
		18 02	
Typewriting, Annie E. Conley . .		10 00	
Total			174 00
Excess of expenditures over appropriation . . .			$49 00
Transfer to this account from Contingent Fund . .			50 00
Balance relinquished to General Treasury . . .			$1 00

Public Ways and Wastes — Continued.

STREET PAVING. (4.3)

STREET MAINTENANCE.

Appropriation	$70,000 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For apples	$29 00
Barrels	40
Bricks	1 22
Hen house	5 00
Horses	80 00
Horse board	411 67
Horseshoeing	128 14
Impounding	75
Labor and materials	184 35
Lumber	2 00
Old harness	4 00
Paving blocks	4 58
Permit fees	43 00
Rent	62 31
Sand	2 72
Scrap iron	71 26
Scrapings	127 80
Steam roller	10 00
Stone	128 06
Stone dust	15 51
Wagon	17 50
	$1,329 27

EXPENDED.

For labor, as per pay rolls		$38,717 06	
Carriage and wagon repairs: —			
Barbour-Stockwell Co	$9 40		
Bunker Hill Carriage Co.	4 50		
Dodge, Haley & Co.	139 94		
Duff Spring Co.	5 00		
Durnin, McLaughlin & Co.	61 47		
Firestone Tire and Rubber Co.	32 80		
Geo. W. Gale Lumber Co.	18 00		
F. Ivers & Son	6 50		
McBarron Co , Incorporated	8 59		
Stephen J. Moran	23 00		
Chas. Waugh & Co.	98 80		
Sundry persons	3 04		
		411 04	
Cement, David W. Lewis		138 25	
Fuel and freight: —			
Bay State Fuel Co	$180 09		
Boston & Maine R. R.	41 05		
Clark Bros.	18 00		
Amounts carried forward	$239 14	$39,266 35	$70,000 00

Public Ways and Wastes — Continued.

STREET MAINTENANCE — Continued.

Amounts brought forward . .	$239 14	$39,266 35	$70,000 00
For M. L. Cobb	194 12		
Coleman Bros.	94 50		
Consumers' Coal Co. . . .	553 50		
A. H. Hews & Co.	10 53		
Metropolitan Coal Co. . . .	558 51		
North Cambridge Coal Co. . .	66 59		
		1,716 89	
Gravel and freight: —			
Boston & Maine R. R. . . .	$104 42		
Fitchburg R. R.	4 30		
Chas. Linehan Estate . . .	9 24		
John McGinnis Estate . . .	112 00		
Josephine E. Stone . . .	11 75		
Joshua Stone	294 05		
Jeremiah Sullivan	282 00		
Sundry persons	3 25		
		821 01	
Hardware, tools and repairs, etc.: —			
Brock Bros.	$39 22		
E. T. Bynner	22 94		
P. J. Carmichael	6 10		
Dodge, Haley & Co. . . .	205 19		
Durnin, McLaughlin & Co. . .	98 15		
Fay Bros.	4 00		
Greenwood & Daggett Co. . .	14 70		
Edw. Kendall & Sons . . .	8 68		
Moynahan & Co.	9 30		
Pill Bros.	13 75		
Smith Bros. Co.	15 30		
Daniel J. Sullivan	23 60		
Sundry persons	5 15		
		466 08	
Harness and repairs, etc.: —			
M. Cavanagh	$168 65		
Joseph Cogan	71 89		
James Curry	76 40		
James Forgie's Sons . . .	33 00		
Thomas J Fox	18 80		
John J. Hawkes	3 25		
M. M. Hawkes . . .	16 50		
F. Ivers & Son	9 00		
F. X. Massé	3 75		
Hugh McCaffrey	133 40		
New England Rendering Co. . .	10 00		
Sartwell, Heinold & Humphrey .	40 66		
Sundry persons	1 10		
		586 40	
Hay, grain and straw: —			
Otis S Brown & Co. . . .	$334 10		
J. Cushing & Co.	2,229 92		
Enos & Holmes	196 29		
Robert Fawcett	637 02		
E. R. Luke & Co.	543 67		
		3,941 00	
Amounts carried forward . .		$46,797 73	$70,000 00

Public Ways and Wastes — Continued.

STREET MAINTENANCE — Continued.

Amounts brought forward . .		$46,797 73	$70,000 00
For horses: —			
Myer Abrams & Co. . . .	$550 00		
S & R. J. Lombard . . .	250 00		
Welch & Hall Co.	900 00		
		1,700 00	
Horseshoeing stock: —			
Bay State Forge	$8 32		
Dodge, Haley & Co. . . .	180 61		
Durnin, McLaughlin & Co. . .	101 13		
Francis Supple	20 40		
		310 46	
Lighting: —			
Electric lighting: —			
Cambridge Electric Light Co. .	$366 66		
Lanterns: —			
E. T. Bynner . . $18 45			
F. X. Massé . . 18 00			
	36 45		
Oil: —			
Thos R. Nevins . . $5 50			
Standard Oil Co. . . 33 90			
	39 40		
		442 51	
Office expenses and telephone service: —			
Advertising and printing: —			
Cambridge Chronicle . . .	$67 87		
Binding David Farquhar . .	1 10		
Books, De Wolfe, Fiske & Co. .	16 60		
Car tickets, Boston Elevated Railway Co.	20 00		
Directory, W. A. Greenough & Co.	3 50		
Expressage, Sawin's Express .	60		
Keys, L. L. Phipps & Co. . .	90		
Stamps: —			
Estate of H. C. Dimond & Co. . . . $5 00			
Pneumatic Hand Stamp Co. 6 08			
	11 08		
Stationery and printing: —			
Fred L. Beunke . . $3 55			
Cotton & Gould . . 79 38			
J. A. Cummings Printing Co. . . . 17 68			
J. Frank Facey . . 114 25			
Globe-Wernicke Co. . 9 05			
Will J. Hayner . . 9 50			
Hobbs & Warren Co. . 4 00			
Monk & Bordley . . 3 75			
Thorp & Martin Co. . 1 40			
Times Publishing Co. 7 50			
Edw. W. Wheeler . 14 00			
	264 06		
Subscription: —			
Municipal Journal Publishing Co.	6 00		
Amounts carried forward . . .	$391 71	$49,250 70	$70,000 00

Public Ways and Wastes — Continued.

STREET MAINTENANCE — Continued.

Amounts brought forward . .	$391 71	$49,250 70	$70,000 00
For telegram: —			
Western Union Telegraph Co. .	31		
Typewriter repairs: —			
Smith Premier Typewriter Co. .	53 83		
Telephone service	298 70		
		744 55	
Painters' supplies: —			
Brock Bros.	$14 00		
E. T. Bynner	89 60		
P. J. Carmichael	27 88		
Wadsworth, Howland & Co. . .	70 93		
John L Whiting & Son Co. . .	4 59		
Sundry persons	1 80		
		208 80	
Service transfers: —			
Installing lamps, Electrical Dept. .	$6 20		
Supplies, Postage and Stationery Account	96 16		
Sealing, Sealer of Weights and Measures	4 98		
		107 34	
Stable repairs: —			
John J Blevins	$5 50		
Brock Bros	11 83		
Brock & Eaton	2 85		
E. T. Bynner	3 75		
P. J. Carmichael	4 23		
E. W. Clark	8 75		
John S. Clary Lumber Co. . .	68 08		
Geo. W. Gale Lumber Co . .	173 91		
Ira G. Hersey	7 25		
F. X Massè	4 37		
Moynahan & Co.	60 53		
Pill Bros.	2 87		
Wadsworth, Howland & Co. . .	13 25		
Wm H. Wood & Co. . . .	42 99		
Sundry persons	3 41		
		413 57	
Stable supplies: —			
Brock Bros.	$9 25		
G. W. Burditt	5 00		
E T. Bynner	114 51		
P. J Carmichael	3 33		
A. Cunningham	32 19		
A. C. Curtis	3 65		
Fresh Pond Ice Co. . . .	4 40		
John H. Fuller	57 50		
Henry S. Harris & Son . . .	17 50		
G. C. Kinsley	5 00		
A. M. Loker	25 25		
E. R. Luke & Co.	21 25		
F. X Massè	17 12		
Hugh McCaffrey	85 80		
Pill Bros.	2 25		
Amounts carried forward . . .	$404 00	$50,724 96	$70,000 00

Public Ways and Wastes — Continued.

STREET MAINTENANCE — Continued.

Amounts brought forward	$404 00	$50,724 96	$70,000 00
For L. G. Stone & Co.	15 00		
Warren Bros. Co.	55 00		
G. H Worcester & Co.	34 50		
Sundry persons	3 60		
		512 10	
Steam rollers, repairs and supplies: —			
American Road Roller Co.	$1,375 00		
Barbour-Stockwell Co.	15 30		
Boston Engineers' Supply Co	81 34		
Boston Woven Hose & Rubber Co.	15 68		
Campbell Iron Works	160 66		
Chas. A. Claflin & Co.	93 14		
Ira G Hersey	2 08		
A. H. Hews & Co.	320 75		
Edw. Kendall & Sons	67 60		
John W. McLean & Co.	77 00		
Richard Preston	3 50		
H. J Shaw	21 95		
Alden Speare's Sons Co.	13 50		
Sundry persons	2 25		
Traveling expenses, Geo. M. Clukas	17 00		
		2,266 75	
Stone: —			
Crushed stone: —			
Boston & Maine R. R. $17 00			
Mass. Broken Stone Co. 351 94			
Wm. B Mullen 49 34			
Watham Trap Rock Co. 5,870 91			
Warren Bros. Co. 29 17			
	6,318 36		
Field stone, sundry persons	4,236 14		
Stone dust, Waltham Trap Rock Co.	884 51		
		11,439 01	
Stone crushers, repairs and supplies: —			
Barbour-Stockwell Co.	$10 50		
Boston Engineers' Supply Co.	108 49		
Boston Woven Hose Co.	44 23		
Campbell Iron Works	55 00		
Chas. A. Claflin & Co.	35 42		
Dodge, Haley & Co.	3 70		
Farrel Foundry & Machine Co.	94 10		
Fay Bros.	12 00		
Ira G Hersey	11 33		
A. H. Hews & Co.	35 14		
Holder & Herrick	6 49		
Edw. Kendall & Sons	8 20		
H. J Shaw	26 25		
Taylor Iron & Steel Co.	232 50		
Walworth Manufacturing Co.	2 56		
A. J. Wilkinson & Co.	18 46		
Sundry persons	8 06		
		712 43	
Street signs, E. T. Bynner		5 80	
Teaming, sundry persons		4,160 91	
Test of road material, Lionel S. Marks		10 00	
Amounts carried forward		$69,831 96	$70,000 00

Public Ways and Wastes — Continued.

STREET MAINTENANCE — Concluded.

Amounts brought forward . .			$69,831 96	$70,000 00
For miscellaneous: —				
Barrels, William Welch . . .		$9 00		
Bicycle repairs, J. F. Murphy .		1 50		
Carriage hire: —				
Frank P. Merrill . .	$10 00			
G. F. Whiting & Co. .	9 00			
G. W. Worcester .	4 50			
		23 50		
Cash expended for sundries: —				
Geo. M Clukas		2 49		
Electrical supplies, Thos. J. Daly .		9 95		
Expressage: —				
Coolidge's Express .	$2 10			
D. Crimmins . .	2 75			
Sawin's Express . .	1 55			
		6 40		
Grease, oil, etc.: —				
Boston Engineers' Supply Co. .		27 31		
Horse clipping, Ferris & Co. . .		15 00		
Horseshoeing, sundry persons .		4 50		
Lumber, Wm. H. Wood & Co. .		20 02		
Work on top-mast and housing flag-pole: —				
Boston Flag Pole Co. . . .		19 00		
Sundry supplies: —				
Brock Bros. . .	$7 86			
P. J. Carmichael . .	1 33			
A. C Curtis . .	5 48			
De Berge Chemical & Photo Co. . .	3 00			
Moynahan & Co. . .	2 50			
Sundry persons . .	2 33			
		22 50		
			161 17	
Total				69,993 13
Surplus of appropriation relinquished to General Treasury				$6 87

STREET PAVING. (4.3)

CROSSINGS.

Appropriation		$5,000 00
EXPENDED.		
For labor, as per pay-rolls . . .	$2,753 19	
Cement, Curtis & Pope Lumber Co.	440 00	
Gravel and freight, James Connell .	45 00	
Hardware, tools, etc.: —		
Colonial Supply Co. . . .	19 50	
Amounts carried forward . . .	$3,257 69	$5,000 00

Public Ways and Wastes — Continued.

CROSSINGS — Concluded.

Amounts brought forward		$3,257 69	$5,000 00
For lanterns, F. X. Massè		10 00	
Relaying tar concrete crossings: —			
Simpson Bros. Corporation		67 00	
Stone: —			
Granite flagging, S. & R. J. Lombard		226 12	
Teaming, sundry persons		457 50	
Vitrified paving blocks and freight: —			
Boston & Maine R. R.	$178 22		
Ferris Paving Brick Co.	193 06		
Metropolitan Paving Brick Co.	131 12		
Parry Brick Co.	230 00		
C. T. Willard	246 60		
		979 00	
Total			4,997 31
Surplus of appropriation relinquished to General Treasury			$2 69

STREET PAVING. (4.3)

REBUILDING STREETS.

Appropriation			$58,480 56
EXPENDED.			
For labor, as per pay-roll		$21,978 29	
Cement, Curtis & Pope Lumber Co.		3,053 25	
Fuel, Metropolitan Coal Co.		32 00	
Gravel and freight: —			
Boston & Maine R. R.	$797 68		
Josephine E. Stone	2 75		
		800 43	
Hardware, tools, etc.: —			
Ames Plow Co.	$195 40		
Boston Woven Hose and Rubber Co.	60 00		
Joseph Breck & Sons, Corporation	19 20		
G. W Burditt	2 50		
E. T. Bynner	16 75		
Dodge, Haley & Co.	28 04		
Morss & Whyte	13 00		
Moynahan & Co.	6 35		
		341 24	
Hay, grain and straw: —			
J. Cushing & Co.	$630 82		
E. R. Luke & Co.	92 25		
Robert T. Ross	54 37		
		777 44	
Amounts carried forward		$26,982 65	$58,480 56

Public Ways and Wastes — Continued.

REBUILDING STREETS — Concluded.

Amounts brought forward			$26,982 65	$58,480 56
For lighting: —				
Lantern frames and globes: —				
G. W. Burditt	$8 50			
E. T. Bynner	36 00			
Union Glass Co.	25 50			
		70 00		
Oil: —				
Thos. R. Nevins	$13 95			
Standard Oil Co.	82 55			
		96 50		
			166 50	
Lumber: —				
Geo. W. Gale Lumber Co.			191 01	
Pitch: —				
New England Felt Roofing Works			251 80	
Renewing asphalt and bitulithic pavement: —				
Warren Bros. Co.			2,783 62	
Stone: —				
Concrete stone, Wm. B Mullen		$1,402 48		
Crushed stone, Waltham Trap Rock Co.		758 45		
Edgestone, S. & R. J. Lombard		131 81		
Field stone, sundry persons		317 26		
Granite flagging, S. & R. J. Lombard		179 20		
Granite paving blocks: —				
Austin Ford & Son	268 00			
S. & R. J. Lombard	4,228 13			
		4,496 13		
			7,285 33	
Teaming, sundry persons			2,415 00	
Testing bricks, Watertown Arsenal			8 25	
Vitrified paving blocks and freight: —				
Boston Elevated Railway Co.		$490 62		
Metropolitan Paving Brick Co.		7,321 15		
N. Y. Central & Hudson River R. R. Co.		7,525 85		
Traveling expenses, Geo. M. Clukas		54 00		
			15,391 62	
Sundries: —				
E. T. Bynner		$1 23		
Cambridge Chronicle		1 39		
			2 62	
Total				55,478 40
Surplus of appropriation				$3,002 16
Transfer from this account to Snow Removal				3,000 00
Balance relinquished to General Treasury				$2 16

Public Ways and Wastes — Continued.

STREET PAVING. (4.3)

REBUILDING WYETH SQUARE.

Appropriation			$1,000 00
EXPENDED.			
For labor, as per pay-roll		$665 75	
Fuel, Metropolitan Coal Co.		8 00	
Gravel, Josephine Stone		16 00	
Hardware, tools, etc., Ames Plow Co.		5 25	
Stone: —			
Crushed stone, Waltham Trap Rock Co.	$98 25		
Field stone, sundry persons	196 19		
		294 44	
Total			989 44
Surplus of appropriation relinquished to General Treasury			$10 56

SIDEWALKS. (4.4)

PAVING, EDGESTONES AND SIDEWALKS.

Appropriation			$30,000 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.			
For labor and materials		$1,011 01	
EXPENDED.			
For labor, as per pay-rolls		$9,511 65	
Allowance on artificial stone sidewalks: —			
Carr & Andrews Corporation	$202 50		
Geo. H. Lowe	140 45		
P. J. Lyons	199 71		
Simplex Electrical Co.	143 18		
Simpson Bros. Corporation	756 69		
		1,442 53	
Bicycle tires, J. F. Murphy		7 00	
Gravel and freight: —			
Boston & Maine R. R.	$691 66		
David O'Mara	222 75		
		914 41	
Amounts carried forward		$11,875 59	$30,000 00

Public Ways and Wastes — Continued.

PAVING, EDGESTONES AND SIDEWALKS — Concluded.

Amounts brought forward . .		$11,875 59	$30,000 00
For hardware, tools, etc.: —			
Harold L. Bond Co. . . .	$7 40		
Brock Bros.	5 45		
E. T. Bynner	37 08		
Dodge, Haley & Co. . . .	75 08		
Durnin, McLaughlin & Co. . .	7 00		
Greenwood & Daggett Co. . .	29 40		
A. H. Hews & Co.	1 51		
F. X. Massé	2 30		
Morss & Whyte	3 00		
Perrin, Seamans & Co. . . .	20 06		
Tuttle & Newton	9 31		
Bruce R. Ware & Co. . . .	6 60		
		204 19	
Hay, grain, etc., J. Cushing & Co. .		271 89	
Lantern frames and globes: —			
Brock & Eaton	$12 75		
G. W. Burditt	19 00		
E. T. Bynner	9 00		
Union Glass Co.	36 05		
		76 80	
Lumber: —			
Geo. W. Gale Lumber Co. . .	$16 28		
Wm. H. Wood & Co. . . .	74 05		
		90 33	
Oil, Standard Oil Co.		83 26	
Paving bricks: —			
Curtis & Pope Lumber Co. . .	$17 55		
Parry Brick Co.	3,270 05		
		3,287 60	
Stone: —			
Edgestone: —			
Austin Ford & Son . . .	$1,797 88		
S. & R. J. Lombard . . .	6,782 03		
Gutter stone: —			
Michael Flynn	$77 44		
Jeremiah Hagerty . . .	77 44		
S. & R. J. Lombard . . .	4,199 71		
		12,934 50	
Sundries: —			
Henry B. Brown	$1 70		
Cambridge Chronicle . . .	1 39		
		3 09	
Teaming, sundry persons . . .		1,171 88	
Total			29,999 13
Surplus of appropriation relinquished to General Treasury			87

Public Ways and Wastes — Continued.

SIDEWALKS. (4.4)

SIDEWALK REPAIRS.

Appropriation		$5,000 00
EXPENDED.		
For labor, as per pay-rolls	$3,867 17	
Artificial stone driveways and sidewalks: —		
Simpson Bros. Corporation	77 80	
Bricks, Parry Brick Co.	659 75	
Hardware, tools, etc.: —		
Colonial Supply Co.	19 50	
Hay, grain, etc., J. Cushing & Co.	12 50	
Stone, S. & R. J. Lombard	173 77	
Teaming, sundry persons	189 38	
Total		4,999 87
Surplus of appropriation relinquished to General Treasury		13

STREET LIGHTING. (4.5)

SALARIES.

Appropriation		$1,000 00
EXPENDED.		
For salary of: —		
Superintendent, T. C. O'Hearn	$1,000 00	
Total		$1,000 00

GENERAL EXPENSES.

Appropriation		$76,000 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.		
For penalty claimed from Commonwealth of Massachusetts, under instruction of Attorney General	$100 00	
EXPENDED.		
For carriage repairs, T. H. Kneeland	$17 90	
Car tickets: —		
Boston Elevated Railway Co.	10 00	
Amounts carried forward	$27 90	$76,000 00

Public Ways and Wastes — Continued.

STREET LIGHTING — Concluded.

Amounts brought forward . .		$27 90	$76,000 00
For harness and repairs, and horse clothing: —			
Thomas McMahon	$39 00		
Ordway, Loring & Ricker . .	3 50		
Sundry persons	2 75		
		45 25	
Horse board, John J. Corkery . .		42 50	
Horse clipping, Ferris & Co. . .		3 00	
Horseshoeing: —			
Wm. Balmer	$23 50		
John Ryan	11 00		
		34 50	
Lighting streets: —			
Cambridge Electric Light Co.: —			
Arc	$53,974 63		
Incandescent	12,772 93		
Welsbach Street Lighting Co. .	8,546 00		
		75,293 56	
Rubber pads for horses: —			
Geo W. Whittemore . . .		2 40	
Service transfers: —			
Horseshoeing and board, Street Department	$222 37		
Supplies, Postage and Stationery Account	5 46		
		227 83	
Setting lamp posts: —			
Cambridge Gas Light Co. . .		46 03	
Stationery and printing: —			
Amee Bros.	$1 00		
C. S. Binner Corporation . .	5 00		
		6 00	
Telephone service		59 00	
Total			75,787 97
Surplus of appropriation			$212 03
Transfer from this account to Wire Account, Salaries			50 00
Balance relinquished to General Treasury . . .			$162 03

STREET CLEANING. (4.6)

Appropriation			$25,000 00
EXPENDED.			
For labor, as per pay-rolls . . .		$23,814 13	
Hardware, tools, etc.: —			
Brock Bros.	$6 45		
E. T. Bynner	42 75		
Colonial Supply Co. . . .	15 24		
Amounts carried forward . . .	$64 44	$23,814 13	$25,000 00

Public Ways and Wastes — Continued.

STREET CLEANING — Concluded.

Amounts brought forward	$64 44	$23,814 13	$25,000 00
For Dodge, Haley & Co.	6 81		
Durnin, McLaughlin & Co	122 69		
Chas. Hvass	5 25		
F. X. Massé	2 80		
New England Broom Co.	6 50		
Perrin, Seamans & Co.	12 50		
		220 99	
Harness and repairs: —			
James Curry	$31 05		
Hugh McCaffrey	31 49		
		62 54	
Hay, grain and straw: —			
J. Cushing & Co.	$1,831 80		
Robert Fawcett	82 43		
E. R. Luke & Co.	223 90		
		2,138 13	
Machine sweeper repairs: —			
American Road Roller Co.	$2 40		
Barbour-Stockwell Co	42 90		
Boston Woven Hose Co.	4 45		
Broadway Iron Foundry Co.	2 16		
Ira G. Hersey	4 25		
A. H. Hews & Co.	2 75		
Edw. Kendall & Sons	9 23		
New England Broom Co.	126 00		
H. J. Shaw	19 58		
		213 72	
New machine sweeper: —			
Edson Manufacturing Co.		260 00	
Painters' supplies, E. T. Bynner		20 30	
Push carts and cans: —			
American Road Roller Co		360 00	
Refilling machine sweeper brooms: —			
The Boston Broom Co.	$89 00		
Wilkens Bros.	67 10		
		156 10	
Rubbish barrels: —			
American Stave and Cooperage Co.		125 00	
Sprinkling wagon: —			
Good Roads Machinery Co.		250 00	
Stable supplies: —			
Boston Engineers' Supply Co.		2 25	
Teaming, sundry persons		3,371 27	
Sundries		5 00	
Total			30,999 43
Excess of expenditures over appropriation			$5,999 43
Transfer from Contingent Fund		$5,000 00	
Additional appropriation		1,000 00	
			6,000 00
Balance relinquished to General Treasury			57

Public Ways and Wastes — Continued.

SNOW REMOVAL. (4.7)

Appropriation			$15,000 00
EXPENDED.			
For labor, as per pay rolls		$17,117 64	
Hardware, tools, etc. : —			
Joseph Breck & Sons	$58 80		
Dodge, Haley & Co.	123 15		
		181 95	
Hay, grain, etc. : —			
J. Cushing & Co.	$318 20		
E. R. Luke & Co.	196 78		
		514 98	
Salt, Eastern Salt Co.		42 00	
Teaming, sundry persons		142 50	
Total			17,999 07
Excess of expenditures over appropriation			$2,999 07
Transfer to this account from Rebuilding Streets			3,000 00
Balance relinquished to General Treasury			93

STREET SPRINKLING. (4.8)

Appropriation			$28,000 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.			
For collections	$1,611 55		
EXPENDED.			
For labor, as per pay-rolls		$2,992 52	
Clerical assistance in levying assessments : —			
Olive A. Hastings	$27 38		
Frances R. Leonard	25 75		
		53 13	
Bicycle repairs : —			
J. L. Moseley	$16 90		
Sundry persons	3 25		
		20 15	
Harness and repairs, M. Cavanagh		5 75	
Painters' supplies, E. T. Bynner		3 80	
Service transfer : —			
Standpipe repairs, Water Dept.		177 19	
Sprinkling wagon : —			
Good Roads Machinery Co.		250 00	
Sprinkling streets by contracts		23,353 55	
Amounts carried forward		$26,856 09	$28,000 00

Public Ways and Wastes — Continued.

STREET SPRINKLING — Concluded.

Amounts brought forward		$26,856 09	$28,000 00
For standpipes and repairs: —			
Davis & Farnum Mfg. Co.	$18 00		
M. J. Sheehan	14 59		
		32 59	
Watering cart repairs: —			
Abbot-Downing Co.	$34 80		
American Stave & Cooperage Co.	102 00		
Barbour-Stockwell Co	16 50		
Boston Woven Hose Co.	32 40		
John S. Clary Lumber Co.	40 48		
Dodge, Ha ey & Co.	34 28		
Duff Spring Co.	135 28		
Durnin, McLaughlin & Co.	88 14		
Ira G. Hersey	10 23		
Metropolitan Coal Co.	8 00		
Murphy Varnish Co.	202 35		
J. L. & H. K. Potter	54 06		
Wadsworth, Howland & Co.	189 45		
Waterproof Paint Co.	15 00		
John L Whiting & Son Co.	9 22		
Henry J. Winde	80 32		
Sundry persons	4 35		
		1,056 86	
Water supplied: —			
Boston Packing & Provision Co.		50 06	
Sundries		4 40	
Total			$28,000 00

REFUSE COLLECTION AND DISPOSAL. (4.9)

HOUSE OFFAL, LABOR.

Appropriation			$24,000 00
EXPENDED.			
For labor, as per pay rolls		$24,511 64	
Total			24,511 64
Excess of expenditures over appropriation			$511 64
Transfer to this account from Contingent Fund			550 00
Balance relinquished to General Treasury			$38 36

GENERAL EXPENSES.

Appropriation			$6,500 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.			
For sale of offal	$11,729 75		
Amount carried forward			$6,500 00

Public Ways and Wastes — Continued.

HOUSE OFFAL, GENERAL EXPENSES — Continued.

Amount brought forward . .			$6,500 00
	EXPENDED.		
For carpentry: —			
Joseph J. Foley	$100 23		
Chas. J. Ouellet	431 49		
		531 72	
Clearing drain, E. W. Clark . .		4 25	
Hardware, tools and repairs, and supplies: —			
Ames Plow Co.	$20 63		
Baldwin, Robbins & Co. . .	17 80		
Joseph Breck & Sons . . .	11 00		
Brock Bros.	17 88		
E. T. Bynner	33 55		
A. W. Hastings & Co. . . .	9 92		
A. Lubbe	20 66		
F. X. Massé	7 02		
Daniel J. Sullivan	1 20		
Whittier Woodenware Co. . .	4 50		
		144 16	
Harness and repairs and horse clothing: —			
M. Cavanagh	$73 05		
Thos. J. Fox	31 50		
F. X. Massé	14 90		
Joseph A. Ryan	45 65		
G. F. Whitney	5 00		
		170 10	
Hay, grain, etc.: —			
Clark Bros.	$763 42		
J. Cushing & Co.	2,560 69		
Proctor Bros.	3 90		
		3,328 01	
Hoof packing, L. G. Stone & Co. .		1 25	
Horses: —			
Henry S Harris' Sons . .	$200 00		
Welch & Hall Co.	225 00		
		425 00	
Horseshoeing: —			
Wm. Bell	$195 05		
E. P. Griffin	342 20		
		537 25	
Installing electric lights: —			
J. H. McAllister		13 30	
Lighting: —			
Cambridge Electric Light Co. .		23 18	
Lumber and cement: —			
Clark Bros.	$2 00		
John S. Clary Lumber Co. . .	12 41		
Frank T. Sullivan	7 00		
Wm H. Wood & Co. . . .	343 54		
		364 95	
Amounts carried forward . . .		$5,543 17	$6,500 00

Public Ways and Wastes — Continued.

HOUSE OFFAL, GENERAL EXPENSES — Concluded.

Amounts brought forward		$5,543 17	$6,500 00
For paints, oils etc.: —			
Carpenter-Morton Co	$96 40		
G. F. Whitney & Co	28 10		
Sundry persons	2 11		
		126 61	
Painting, Michael Pitts & Son		124 00	
Plumbing: —			
E. W. Clark	$3 55		
T. W. Good	12 25		
		15 80	
Professional services: —			
Chas. J. Walsh, M. D.		36 00	
Service transfer: —			
Straw, Farm Account		110 00	
Stable supplies, F. X. Massé		14 40	
Wagon repairs: —			
T. H. Kneeland	$297 24		
A. S. Lohnes & Co.	232 78		
		530 02	
Total			$6,500 00

REFUSE COLLECTION AND DISPOSAL. (4.9)

COLLECTION OF ASHES.

Appropriation			$29,000 00
EXPENDED.			
For labor, as per pay-roll		$28,193 36	
Bicycle repairs: —			
E. H. McDuffee	$9 75		
J. L. Moseley	13 10		
		22 85	
Hardware, tools, etc.: —			
Brock Bros.	$1 68		
McBarron Co., Inc.	5 84		
		7 52	
Harness and repairs, etc.: —			
Joseph Cogan	$32 60		
Hugh McCaffrey	9 25		
Geo. W. Whittemore	8 10		
		49 95	
Hay, grain, and straw: —			
J. Cushing & Co.	$2,169 34		
Robert Fawcett	265 10		
E. R. Luke & Co.	1,011 86		
		3,446 30	
Amounts carried forward		$31,719 98	$29,000 00

Public Ways and Wastes — Continued.

COLLECTION OF ASHES — Concluded.

Amounts brought forward . .		$31,719 98	$29,000 00
For horseshoeing stock: —			
Dodge, Haley & Co. . . .	$35 25		
Geo. W. Whittemore . . .	4 90		
		40 15	
Horseshoeing: —			
Wm. Balmer	$4 75		
Sundry persons	3 25		
		8 00	
Teaming, sundry persons . . .		80 00	
Wagon repairs: —			
Barbour-Stockwell Co. . . .	$63 85		
Broadway Iron Foundry Co. . .	26 10		
G. W. Burditt	4 70		
Dodge, Haley & Co. . . .	18 00		
Hugh McCaffrey	37 50		
H. J. Shaw	8 00		
Henry J. Winde	25 52		
Wm. H. Wood & Co . . .	65 18		
		248 85	
Total			32,096 98
Excess of expenditures over appropriation . .			$3,096 98
Transfers to this account: —			
From Contingent Fund		$3,000 00	
From Boston Bridges, General Expenses . .		100 00	
			3,100 00
Balance relinquished to General Treasury . . .			$3 02

SEWERS AND SEWAGE DISPOSAL. (4.10)

SEWER DEPARTMENT, CONSTRUCTION, GENERAL.

Appropriation			$46,000 00
	EXPENDED.		
For General Expenses: —			
Labor, as per pay-rolls . . .		$415 00	
Advertising: —			
Boston Herald Co .	$27 75		
Cambridge Chronicle .	15 85		
		43 60	
Bricks, New England Brick Co. .		13 50	
Cement: —			
John M. Riley . .	$25 25		
Windsor Cement Co. .	1,448 00		
		1,473 25	
Filling, Wm. B. Mullen . . .		11 00	
Amounts carried forward . . .		$1,956 35	$46,000 00

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, CONSTRUCTION, GENERAL — Continued.

Amounts brought forward . .	$1,956 35		$46,000 00
For hardware, tools and repairs: —			
Brock Bros. . . $30 00			
E. T. Bynner . 4 50			
James Maitland . . 33 42			
Daniel J. Sullivan . 18 30			
Sundry persons . . 4 53			
	90 75		
Hose, couplings, etc.: —			
Edson Manufacturing Co. . .	64 79		
Lumber and mill work: —			
H. A. Scranton	3 50		
Oil, Standard Oil Co. . . .	9 90		
Pipe, etc., David W. Lewis Co. .	794 28		
Pipe and cement: —			
Eastern Clay Goods Co. . .	591 76		
Printing, Cambridge Chronicle .	8 00		
Rings and covers, Osgood & Witherly	57 74		
Sand, David O'Mara . . .	15 50		
Teaming, sundry persons . .	50 50		
Traps and hooks: —			
Barbour-Stockwell Co. . .	63 75		
		$3,706 82	
New catch-basins: —			
Labor, as per pay-rolls . .	$674 40		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	194 62		
Catch-basin covers, traps and hooks: —			
Barbour-Stockwell Co. $68 00			
Osgood & Witherly . 14 50			
	82 50		
Cement, Windsor Cement Co. .	25 60		
Pipe and fittings, David W. Lewis Co.	15 89		
Service transfer: —			
Repairs, Water Dept. . .	5 03		
Teaming, Thos. O'Hara . .	5 00		
		1,003 04	
Acacia Street sewer: —			
Labor, as per pay-rolls . . .	$191 75		
Lumber, Wm. H. Wood & Co. .	62 31		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	12 97		
Teaming, P. Biggin . . .	5 00		
		272 03	
Amherst Street sewer: —			
Labor, as per pay-rolls . . .	$3,479 41		
Bricks, A. E. Locke, Receiver New England Brick Co . . .	136 24		
Cement, Windsor Cement Co. .	134 51		
Filling: —			
Wm. B. Mullen . . $468 81			
John T. Scully & Bro. 97 10			
	565 91		
Fuel: —			
Consumers' Co-operative Coal Co.	8 50		
Amounts carried forward . . .	$4,324 57	$4,981 89	$46,000 00

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, CONSTRUCTION, GENERAL — Continued.

Amounts brought forward . .	$4,324 57	$4,981 89	$46,000 00
For hardware, tools and repairs, and supplies: —			
E. T. Bynner . . $84 04			
James Maitland . . 7 61			
Daniel J. Sullivan . 6 90			
	98 55		
Lumber and mill work: —			
J. H. Keenan & Son . $26 37			
H. A. Scranton . . 7 55			
Wm. H. Wood & Co. . 620 60			
	654 52		
Oil, Standard Oil Co. . . .	5 50		
Piles, John T Scully & Bro. . .	297 83		
Pipe, etc.: —			
Curtis & Pope Lumber Co. $38 70			
D. W. Lewis . . 9 02			
	47 72		
Teaming, Thos. O'Hara . . .	10 00		
Use of pump and engine: —			
Geo. E. Worthen . . .	92 50		
		5,531 19	
Amory Street sewer: —			
Labor, as per pay-rolls . . .	$82 86		
Pipe, D. W. Lewis . . .	31 80		
Sand and gravel, Wm. B. Mullen .	15 60		
		130 26	
Binney Street sewer: —			
Labor, as per pay-rolls . . .	$8,095 73		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	717 93		
Cement, Windsor Cement Co. .	269 03		
Hardware, tools and repairs: —			
Aberthaw Construction Co. $144 27			
Brock Bros. . . 12 35			
E. T. Bynner . . 136 32			
J. A. Holmes & Co. . 90			
Chas James . . 6 75			
James Maitland . . 23 22			
Daniel J Sullivan . 12 60			
	336 41		
Lumber and mill work: —			
J. H. Keenan & Son . $141 89			
H. A. Scranton . . 41 95			
Wm. H. Wood & Co. . 694 66			
	878 50		
Oil, Standard Oil Co. . . .	8 61		
Packing, Boston Woven Hose Co.	53		
Repairing granolithic sidewalk: —			
Warren Bros. Co. . . .	24 00		
Sand and gravel: —			
Wm. B. Mullen . . $435 85			
John T. Scully & Bro. 179 10			
	614 95		
Services, Edgar S. Dorr . . .	50 00		
Amounts carried forward . . .	$10,995 69	$10,643 34	$46,000 00

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, CONSTRUCTION, GENERAL — Continued.

Amounts brought forward . .	$10,995 69	$10,643 34	$46,000 00
For service transfer: —			
Repairs, Water Dept. . $4 30			
Stone, Street Dept. . 45 85			
	50 15		
Stone, Waltham Trap Rock Co. .	56 88		
Teaming, sundry persons . .	115 00		
		11,217 72	
Carleton Street sewer: —			
Labor, as per pay-roll . . .	$2,002 82		
Bricks, A E. Locke, Receiver New England Brick Co. . . .	56 22		
Cement, Windsor Cement Co. .	134 52		
Filling, etc., Wm. B. Mullen . .	248 91		
Fuel: —			
Consumers' Co-operative Coal Co.	27 27		
Hardware, tools and repairs and supplies: —			
E. T. Bynner . . $27 44			
James Maitland . . 15 79			
	43 23		
Lumber and mill work: —			
J. H. Keenan & Son . $5 93			
H. A. Scranton . . 7 55			
Wm. H. Wood & Co. . 480 21			
	493 69		
Oil, Standard Oil Co. . . .	2 62		
Piles, John T. Scully & Bro. . .	94 74		
Pipe, etc., D. W. Lewis . .	8 20		
Teaming, sundry persons . .	16 50		
Use of pump and engine: —			
Geo. E. Worthen . . .	31 25		
		3,159 97	
Exeter Park sewer: —			
Labor, as per pay-rolls: — . .	$207 28		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	8 65		
Pipe, etc., David W. Lewis Co. .	219 83		
		435 76	
Fayerweather Street sewer: —			
Labor, as per pay-rolls . . .	$956 82		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	29 95		
Pipe, etc: —			
Curtis & Pope Lumber Co. $341 47			
David W. Lewis Co. 3 65			
	345 12		
Teaming, P. Biggin . . .	4 87		
		1,336 76	
Garden Street sewer: —			
Labor, as per pay-rolls . . .	$1,651 52		
Bricks, A. E Locke, Receiver New England Brick Co. . . .	147 04		
Amounts carried forward . . .	$1,798 56	$26,793 55	$46,000 00

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, CONSTRUCTION, GENERAL — Continued.

Amounts brought forward . .	$1,798 56	$26,793 55	$46,000 00
For cement, Windsor Cement Co. .	151 83		
Gravel, Wm. B. Mullen . . .	244 12		
Pipe, etc., David W. Lewis Co. .	14 85		
Teaming, sundry persons . .	154 75		
		2,364 11	
Garden Terrace sewer: —			
Labor, as per pay-rolls . . .	$281 01		
Pipe, etc., Eastern Clay Goods Co.	66 29		
		347 30	
Gurney Street sewer: —			
Labor, as per pay-rolls . . .	$887 12		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	25 95		
Lumber and mill work: —			
H. A. Scranton . . $3 00			
Wm. H. Wood & Co. . 104 22			
	107 22		
Piles, John T. Scully & Bro. . .	71 87		
Pipe, etc , David W. Lewis Co. .	127 60		
Teaming, sundry persons . .	13 50		
Use of engine, Geo. E. Worthen .	34 00		
		1,267 26	
Hayward Street sewer: —			
Labor, as per pay-rolls . . .	$1,759 50		
Bricks, A. E. Locke, Receiver New England Brick Co.	12 98		
Cement, Windsor Cement Co. .	134 52		
Fuel: —			
Consumers' Co-operative Coal Co.	13 84		
Hardware, tools and supplies: —			
E T. Bynner	35 77		
Lumber, Wm. H. Wood & Co. .	431 44		
Piles, John T. Scully & Bro. . .	94 73		
Pipe, etc , D. W. Lewis Co. . .	2 21		
Sand and gravel, Wm. B. Mullen .	143 17		
		2,628 16	
Homer Avenue sewer: —			
Labor, as per pay-rolls . . .	$236 09		
Pipe, etc , Curtis & Pope Lumber Co.	50 20		
		286 29	
Madison Street sewer: —			
Labor, as per pay-rolls . . .	$654 45		
Pipe, etc , Eastern Clay Goods Co.	190 12		
		844 57	
Potter Street sewer: —			
Labor, as per pay-rolls . . .		414 18	
Seventh Street sewer: —			
Labor, as per pay-rolls . . .	$312 19		
Bricks, New England Brick Co. .	13 50		
Pipe, D. W. Lewis . . .	88		
Teaming, B. F. St. George & Sons	5 00		
		331 57	
Amounts carried forward . .		$35,276 99	$46,000 00

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, CONSTRUCTION, GENERAL — Continued.

Amounts brought forward . .			$35,276 99	$46,000 00
For Sixth Street sewer: —				
Labor, as per pay-rolls . . .		$1,336 89		
Gravel, Wm. B. Mullen . . .		117 57		
Lumber, Wm. H. Wood & Co. .		11 97		
Pipe and fittings: —				
Curtis & Pope Lumber Co.	$509 96			
David W. Lewis Co. .	64 50			
		574 46		
Service transfer, Pipe, Water Dept.		12 15		
Teaming, sundry persons . .		33 74		
			2,086 78	
Wadsworth Street sewer: —				
Labor, as per pay-rolls . . .		$7,038 24		
Bricks, A. E. Locke, Receiver New England Brick Co. . .		547 10		
Canvas, Nolan Bros. . . .		39 00		
Filling, etc., Wm. B. Mullen .		1,027 81		
Cost of supporting tracks: —				
Boston & Albany R. R. . .		112 28		
Fuel, Coleman Bros. . . .		57 00		
Hardware, tools and repairs, and supplies: —				
Boston Woven Hose and Rubber Co. .	$2 00			
Brock Bros. . .	12 35			
E. T. Bynner . .	161 86			
Daniel J. Sullivan .	5 70			
		181 91		
Iron work, H. J. Shaw . . .		20 27		
Lumber and mill work: —				
J. H. Keenan & Son .	$10 85			
H A. Scranton . .	64 52			
Wm. H. Wood & Co. .	1,522 45			
		1,597 82		
Oil: —				
Alden Speare's Sons Co.	$10 30			
Standard Oil Co. .	11 40			
		21 70		
Piles, John T. Scully & Bro. .		248 70		
Pipe, cement, etc: —				
Curtis & Pope Lumber Co.	$108 10			
Eastern Clay Goods Co.	49 45			
D W. Lewis . .	1 00			
Windsor Cement Co. .	134 52			
		293 07		
Service transfer: —				
Repairs, etc , Water Dept. .		24 22		
Stone, Austin Ford & Son . .		80 00		
Teaming, sundry persons . .		264 12		
Use of pump and engine: —				
Geo. E. Worthen . . .		101 25		
			11,654 49	
Amounts carried forward . . .			$49,018 26	$46,000 00

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, CONSTRUCTION, GENERAL — Concluded.

Amounts brought forward . .		$49,018 26	$46,000 00
For Warland Street sewer: —			
Labor, as per pay-rolls . . .	$376 31		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	25 95		
Hardware, tools and supplies: —			
James Maitland	1 82		
Lumber, Wm. H. Wood & Co. .	59 07		
Pipe, etc., D. W. Lewis Co. . .	68 59		
Teaming, Thomas O'Hara . .	5 00		
		536 74	
Total			49,555 00
Excess of expenditures over appropriation . . .			$3,555 00
Additional appropriation			5,500 00
Balance relinquished to General Treasury . . .			$1,945 00

SEWERS AND SEWAGE DISPOSAL. (4.10)

SEWER DEPARTMENT, CONSTRUCTION.

IMPROVED SEWERAGE.

Appropriation			$47,027 11
	EXPENDED.		
For General Account: —			
Cement, Windsor Cement Co. .	$1,151 90		
Pipe, Eastern Clay Goods Co. .	332 16		
Repairing drain, Higgins & Co. .	6 50		
Rings and covers, Osgood & Witherly	138 19		
		1,623 75	
Bay Street system: —			
Labor, as per pay-roll . . .	$934 60		
Hardware, E. T. Bynner . .	4 20		
Lumber, Wm. H. Wood & Co. .	39 53		
Teaming, sundry persons . .	19 00		
		997 33	
Franklin Street system: —			
Labor, as per pay-roll . . .	$2,422 93		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	56 22		
Hardware, tools and repairs, and supplies: —			
E. T. Bynner . . $31 86			
Brock Bros. . . 4 85			
James Maitland . . 5 94			
Daniel J. Sullivan . 10 90			
	53 55		
Amounts carried forward . . .	$2,532 70	$2,626 08	$47,027 11

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, CONSTRUCTION, IMPROVED SEWERAGE — Continued.

Amounts brought forward . .	$2,532 70	$2,626 08	$47,027 11
For gravel: —			
Wm. B. Mullen . . $28 01			
Thos. O'Hara . . 69 97			
	97 98		
Lumber, Wm. H. Wood & Co. .	52 08		
Pipe: —			
Curtis & Pope Lumber Co. $42 14			
David W. Lewis Co . 29 84			
	71 98		
Teaming, sundry persons . .	133 63		
		2,888 37	
Green Street system: —			
Labor, as per pay-roll . . .	$1,369 85		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	43 24		
Lumber, Wm. H Wood & Co. .	126 37		
Oil, Standard Oil Co. . . .	5 40		
Pipe, D. W. Lewis Co. . . .	1 00		
Teaming, sundry persons . .	58 00		
		1,603 86	
Grigg Street: —			
Labor, as per pay-roll . . .	$704 50		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	34 60		
Castings, Osgood & Witherly .	8 28		
Cement, Windsor Cement Co. .	29 57		
Fuel, Consumers' Coal Co. . .	11 90		
Hardware, E. T. Bynner . .	22 91		
Mill work, H. A. Scranton . .	8 50		
Oil, Standard Oil Co. . . .	4 20		
Piles, John T. Scully & Bro. . .	60 31		
Pipe and fittings, David W. Lewis Co.	8 17		
Sand, gravel, etc., Wm. B. Mullen	79 11		
Teaming, P. Biggin . . .	6 00		
		978 05	
Hayes Street system: —			
Labor, as per pay-roll . . .	$1,222 40		
Bricks, A. E. Locke, Receiver New England Brick Co . . .	12 97		
Hardware, tools and supplies: —			
E. T. Bynner	10 80		
Piles, John T. Scully & Bro. . .	31 87		
Sand, gravel, etc , Wm. B. Mullen	21 66		
		1,299 70	
Howard Street system: —			
Labor, as per pay-roll . . .	$2,700 35		
Bricks, A. E Locke, Receiver New England Brick Co. . . .	25 95		
Cement, Windsor Cement Co. .	181 26		
Fuel, Consumers' Coal Co . .	12 75		
Amounts carried forward . . .	$2,920 31	$9,396 06	$47,027 11

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, CONSTRUCTION, IMPROVED SEWERAGE — Continued.

Amounts brought forward . .	$2,920 31	$9,396 06	$47,027 11
For hardware, tools and repairs, and supplies: —			
E. T. Bynner . . $12 65			
Chas. James . . 13 25			
James Maitland . . 3 05			
Morss & Whyte . . 3 13			
———	32 08		
Lumber and mill work: —			
J. H. Gerlach Co. . $67 85			
H. A. Scranton . . 21 85			
Wm H. Wood & Co. . 253 61			
———	343 31		
Oil, Standard Oil Co. . . .	5 22		
Piles, John T Scully & Bro. . .	156 68		
Pipe, etc., David W. Lewis Co. .	246 43		
Sand, gravel, etc., Wm. B. Mullen	41 88		
Teaming, sundry persons . .	157 00		
	———	3,902 91	
Inman Square system: —			
Labor, as per pay-roll . . .	$293 25		
Bricks, A. E. Locke, Receiver, New England Brick Co. . . .	17 30		
Teaming, sundry persons . .	21 50		
	———	332 05	
Jay Street system: —			
Labor, as per pay-roll . . .	$1,416 41		
Gravel, Wm. B. Mullen . . .	25 10		
Hardware, tools and supplies: —			
E. T. Bynner . . .	28 65		
Lumber, Wm. H. Wood & Co. .	162 42		
Pipe and fittings: —			
David W. Lewis Co. . . .	8 17		
Sand and gravel, Wm. B. Mullen .	17 00		
Teaming, Thos. O'Hara . . .	8 75		
	———	1,666 50	
Harrison Street system: —			
Labor, as per pay-roll . . .		220 80	
Kinnaird Street system: —			
Service transfer: —			
Repairs, Water Dept. . . .		11 61	
Magee Street system: —			
Labor, as per pay-roll . . .	$1,096 85		
Castings, Osgood & Witherly .	8 29		
Piles, John T. Scully & Bro. . .	60 31		
Pipe and fittings: —			
David W. Lewis Co. . . .	3 21		
Teaming, sundry persons . .	10 00		
	———	1,178 66	
Portland Street system: —			
Fuel, Consumers' Coal Co. . .		17 89	
Amounts carried forward . . .		$16,726 48	$47,027 11

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, CONSTRUCTION, IMPROVED SEWERAGE — Concluded.

Amounts brought forward . .		$16,726 48	$47,027 11
For Washington Street system: —			
Labor, as per pay-roll . . .	$10,347 72		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	854 18		
Castings, Osgood & Witherly .	33 15		
Cement, Windsor Cement Co. .	983 97		
Fuel, Consumers' Coal Co. . .	83 43		
Gravel, sand, etc.: —			
Wm. B. Mullen . $1,361 05			
David O'Mara . . 17 00			
———	1,378 05		
Hardware, tools and repairs, and supplies: —			
E. T. Bynner . . $278 60			
James Maitland . . 65 91			
D. J. Sullivan . . 18 70			
———	363 21		
Hose, etc.: —			
Boston Woven Hose and Rubber Co. . $11 55			
Edson M'f'g Co. . . 27 07			
———	38 62		
Iron work, H. J. Shaw . .	159 26		
Lumber and mill work: —			
J. H. Gerlach Co. . $178 10			
J. H. Keenan & Son . 99 35			
Wm. H. Wood & Co. . 1,774 15			
———	2,051 60		
Oil: —			
Alden Speare's Sons Co. $5 60			
Standard Oil Co. . 41 60			
———	47 20		
Pipe, etc.: —			
Eastern Clay Goods Co. $252 30			
David W. Lewis Co. . 998 50			
———	1,250 80		
Repairing fence, J. H. Keenan & Son	4 75		
Rubber boots, Robert Josselyn .	81 54		
Sandals, Wm. H. Roberts . .	5 10		
Screening, Morss & Whyte . .	3 75		
Service transfer: —			
Repairs, Water Dept. . .	27 55		
Teaming, sundry persons . .	586 37		
Trench machine repairs: —			
Carson Trench Machine Co. .	307 22		
Use of engines and pumps: —			
Geo. E. Worthen . . .	397 00		
———		19,004 47	
Total			35,730 95
Surplus of appropriation relinquished to General Treasury			$11,296 16

Public Ways and Wastes — Continued.

SEWERS AND SEWAGE DISPOSAL. (4.10)

SEWER DEPARTMENT, CONSTRUCTION, SEPARATE SYSTEM OF DRAINAGE.

Appropriation			$25,000 00
	EXPENDED.		
For General Expenses: —			
Castings, Osgood & Witherly	$38 32		
Cement, Windsor Cement Co.	170 00		
		208 32	
Amherst Street sewer: —			
Stone step, Austin Ford & Son	$6 70		
Use of engines and pumps, Geo. E. Worthen	210 25		
		216 95	
Cambridge Street sewer: —			
Labor, as per pay-roll	$6,206 11		
Bricks, A. E Locke, Receiver New England Brick Co.	30 28		
Castings, Osgood & Witherly	42 35		
Cement, Windsor Cement Co.	253 27		
Fuel, Consumers' Coal Co.	41 48		
Gravel, Wm. B. Mullen	338 45		
Hardware, tools and repairs, and supplies: —			
E. T. Bynner $247 94			
Chas. James 6 50			
James Maitland 47 08			
Morss & Whyte 5 63			
Daniel J. Sullivan 18 70			
	325 85		
Iron work, H. J. Shaw	29 92		
Lumber and mill work: —			
J. H. Gerlach Co. $135 69			
Wm. H. Wood & Co. 482 45			
	618 14		
Oil: —			
Alden Speare's Sons Co. $5 60			
Standard Oil Co. 11 40			
	17 00		
Pipe, etc., David W. Lewis Co.	737 35		
Rental of trench machine, Carson Trench Machine Co.	300 00		
Rubber boots and sandals: —			
Robert Josselyn $81 54			
Wm. H. Roberts 5 10			
	86 64		
Service transfer, Repairs, Water Department	37 20		
Teaming, sundry persons	687 51		
Use of engines and pumps, Geo. E. Worthen	146 00		
		9,897 55	
Amounts carried forward		$10,322 82	$25,000 00

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, CONSTRUCTION, SEPARATE SYSTEM OF DRAINAGE — Continued.

Amounts brought forward . .		$10,322 82	$25,000 00
For Carleton Street sewer: —			
Labor, as per pay-roll . . .	$459 30		
Bricks, A. E Locke, Receiver New England Brick Co. . . .	69 19		
Gravel, Wm. B Mullen . . .	23 46		
Pipe, etc , David W. Lewis Co. .	10 75		
Teaming, sundry persons .	36 88		
		599 58	
Hayward Street sewer: —			
Labor, as per pay-roll . . .	$730 91		
Bricks, A. E Locke, Receiver New England Brick Co. . . .	51 90		
Gravel and sand: —			
Wm. B. Mullen . . $121 88			
David O'Mara . . 3 00			
	124 88		
Pipe, etc., David W. Lewis Co. .	10 75		
Teaming, sundry persons . .	125 00		
		1,043 44	
Homer Avenue sewer: —			
Labor, as per pay-roll . . .	$309 57		
Bricks, A E. Locke, Receiver New England Brick Co. . .	25 95		
Pipe. etc: —			
Curtis & Pope Lumber Co. $95 91			
David W. Lewis Co. . 1 04			
	96 95		
Teaming, P. Biggin . . .	1 50		
		433 97	
Jefferson Street sewer: —			
Labor, as per pay-roll . . .		586 50	
Porter Street sewer: —			
Labor, as per pay-roll . . .	$1,571 51		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	38 93		
Castings, Osgood & Witherly .	17 50		
Gravel, Wm. B. Mullen . . .	11 30		
Pipe and fittings, David W. Lewis Co.	170 76		
		1,810 00	
Wadsworth Street sewer: —			
Labor, as per pay-roll . . .	$718 71		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	51 89		
Car service, Boston & Albany R R.	4 00		
Cutting stone, Austin Ford & Son .	64 80		
Fuel, Consumers' Coal Co. . .	4 25		
Gravel, Wm B. Mullen . . .	14 63		
Iron work, H. J. Shaw . . .	110 52		
Lumber, Wm. H. Wood & Co. .	16 53		
Amounts carried forward . . .	$985 33	$14,796 31	$25,000 00

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, CONSTRUCTION, SEPARATE SYSTEM OF DRAINAGE — Concluded.

Amounts brought forward . .	$985 33	$14,796 31	$25,000 00
For service transfer, Pipe, Water Dept.	6 47		
Teaming	67 50		
Tide gate and frame, The J. H. Gerlach Co.	23 38		
		1,082 68	
Warren Street sewer: —			
Labor, as per pay-roll . . .	$1,121 53		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	38 93		
Castings, Osgood & Witherly .	8 28		
Gravel, Wm. B. Mullen . . .	16 20		
Lumber, Wm. H. Wood & Co. .	60 54		
Pipe, etc., David W. Lewis Co. .	125 53		
Service transfer, Repairs, Water Department	3 61		
Teaming, sundry persons . .	25 00		
		1,399 62	
Webster Avenue sewer: —			
Labor, as per pay-roll . . .	$1,673 97		
Bricks, A. E. Locke, Receiver New England Brick Co. . . .	82 17		
Gravel: —			
Wm. B. Mullen . . $144 22			
David O'Mara . . 18 00			
	162 22		
Hardware, tools and supplies: —			
Brock Bros. . . $4 85			
E. T. Bynner . . 63 75			
	68 60		
Lumber, Wm. H. Wood & Co. .	149 63		
Oil, Standard Oil Co. . . .	4 40		
Pipe, etc.: —			
Curtis & Pope Lumber Co. $42 14			
D. W. Lewis Co. . 52 02			
	94 16		
Teaming	37 50		
		2,272 65	
Total			19,551 26
Surplus of appropriation relinquished to General Treasury			$5,448 74

SEWERS AND SEWAGE DISPOSAL. (4.10)

SEWER DEPARTMENT, MAINTENANCE.

Appropriation	$18,000 00

Department Receipts. Carried to General Treasury.

For clay	$7 65	
Fertilizer	1 00	
Amounts carried forward . . .	$8 65	$18,000 00

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, MAINTENANCE — Continued.

Amounts brought forward	$8 65		$18,000 00
For filling	26 06		
Labor and materials	33 06		
Lamps	2 59		
	$70 36		

EXPENDED.

For cleaning gates: —			
Labor, as per pay-roll		$1,250 87	
Cleaning sumps: —			
Labor, as per pay-roll		205 97	
Catch-basin repairs: —			
Labor, as per pay-roll	$1,242 67		
Barbour-Stockwell Co.	60 25		
Austin Ford & Son	69 60		
D. W. Lewis Co.	10 25		
A. E. Locke, Receiver New England Brick Co.	25 94		
James Maitland	19 21		
Osgood & Witherly	14 49		
Windsor Cement Co.	19 25		
Sundry persons	2 85		
		1,464 51	
Cleaning catch-basins: —			
Labor, as per pay-roll	$1,936 75		
John Horigan	3,007 74		
		4,944 49	
Cleaning and flushing sewers: —			
Labor, as per pay-roll	$581 83		
Disinfectant, Sulpho-Napthol Co.	41 50		
Hose, J. M. Hardy	200 00		
Sewer rods, P. J. Healey	90 00		
		913 33	
General expenses: —			
Salary of Superintendent, T. L. Pike	$2,000 00		
Labor, as per pay-roll	1,237 44		
Bricks, New England Brick Co.	54 59		
Canvas covers, Wm. S. Nolan	72 20		
Car tickets, Boston Elevated Railway Co.	90 00		
Gravel, Wm. B. Mullen	4 97		
Hardware, tools and repairs, and supplies: —			
E. T. Bynner $70 39			
Greene & Co. 7 37			
Edgar Hall 4 00			
James Maitland 47 24			
Sundry persons 3 10			
	132 10		
Harness and repairs, F. Ivers & Son	9 75		
Horse, J. D. Packard & Sons	110 00		
Iron work, H. J. Shaw	9 39		
Amounts carried forward	$3,720 44	$8,779 17	$18,000 00

Public Ways and Wastes – Continued.

SEWER DEPARTMENT, MAINTENANCE — Continued.

Amounts brought forward . .	$3,720 44	$8,779 17	$18,000 00
For lumber: —			
E. D. Sawyer Lumber Co. $10 92			
Wm. H. Wood & Co. . 19 32			
———	30 24		
Mill work, H. A. Scranton . .	25 82		
Oil, Standard Oil Co. . . .	12 50		
Oiled clothing, H. M. Sawyer & Son	26 63		
Painting and papering, M. A. Feeley	72 65		
Plumbing, Greene & Co. . .	18 82		
Repairing carts, etc.: —			
F. Ivers & Son . . $235 50			
Chas. Waugh & Co. . 547 91			
———	783 41		
Repairing sewer register, Frank R. Kenney	2 00		
Rubber gloves, Robert Josselyn .	2 25		
Sand, David O'Mara . . .	27 10		
Telephone service	28 27		
Sundries	3 05		
———		4,753 18	
Manhole repairs: —			
Labor, as per pay-roll . . .	$75 25		
Castings, Osgood & Witherly .	6 23		
———		81 48	
Office expenses: —			
Salary of clerk, Mary E. Rowen .	$390 00		
Opening desk, and key, L. L. Phipps & Co.	1 00		
Service transfer, Postage and Stationery Account . . .	11 31		
Stamps, Pneumatic Hand Stamp Co.	15 13		
Stationery and printing: —			
Cambridge Chronicle . $16 50			
Cotton & Gould . . 14 00			
J. Frank Facey . . 12 25			
Globe-Wernicke Co. . 5 50			
J. K. Rhodes . . 85			
———	49 10		
———		466 54	
Sewer repairs: —			
Labor, as per pay-roll . . .	$1,308 53		
Bricks, A. E. Locke Receiver New England Brick Co. . . .	12 98		
Cement, Windsor Cement Co. .	19 25		
Cleaning and repairing, Thos. O'Hara	35 00		
Coke, Cambridge Gas Light Co. .	5 30		
———	———	———	
Amounts carried forward . . .	$1,381 06	$14,080 37	$18,000 00

Public Ways and Wastes — Continued.

SEWER DEPARTMENT, MAINTENANCE — Concluded.

Amounts brought forward . .	$1,381 06	$14,080 37	$18,000 00
For expenses incurred on account of blocking of sewers: —			
Willard A. Bullard, Trustee . . . $17 68			
John W. Kollen . . 6 75			
Philip C. Munroe . 22 15			
	46 58		
Hardware, tools and repairs, and supplies: —			
E. T. Bynner . . . $1 50			
James Maitland . . 16 37			
Daniel J. Sullivan . . 2 40			
	20 27		
Lumber, Wm. H. Wood & Co. .	25 59		
Mill work, H. A. Scranton . .	3 60		
Oil, Standard Oil Co. . . .	14 80		
Sand and gravel: —			
Wm. B. Mullen . . $42 97			
David O'Mara . . 54 00			
	96 97		
Teaming, sundry persons . .	15 50		
		1,604 37	
Stable account: —			
Labor, as per pay-roll . . .	$761 00		
Fuel, Coleman Bros . . .	14 00		
Harness and repairs, M. Cavanagh	96 50		
Hay, grain, etc.: —			
E. R. Luke & Co. . $745 33			
L. G. Stone & Co. . 7 50			
	752 83		
Horse clipping, Ferris & Co. . .	9 00		
Horseshoeing: —			
W. F. Garrett . . $23 50			
John F. Gurry & Sons 140 50			
	164 00		
Lighting, Cambridge Electric Light Co.	19 07		
Lumber and mill work: —			
E. D. Sawyer Lumber Co. $2 81			
H. A. Scranton . . 8 50			
Wm. H. Wood & Co. . 6 91			
	18 22		
Supplies, E. T. Bynner . . .	75		
		1,835 37	
Total			17,520 11
Surplus of appropriation relinquished to General Treasury			$479 89

Public Ways and Wastes— Continued

BRIDGES. (4.12)

BOSTON BRIDGES.

SALARIES AND LABOR.

Appropriation			$10,650 00
EXPENDED.			
For salaries of: —			
Bridge Commissioner and Harbor Master: —			
Wm. J. Marvin	$533 30		
Geo. M. Clukas (acting)	233 33		
		$766 63	
Clerk, Chas. S. Parsons		250 00	
Draw-tenders and assistants		9,634 89	
Total			10,651 52
Excess of expenditures over appropriation			$1 52
Transfer to this account from Contingent Fund			100 00
			$98 48
Transfer from this account to Street Department, Maintenance, Salaries			50 00
Balance relinquished to General Treasury			$48 48

GENERAL EXPENSES.

Appropriation			$6,500 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.			
For damage to North Harvard Bridge	$23 35		
Rent	206 32		
Wharfage	70 00		
Sale of old wood	43 25		
Space for advertising	37 50		
	$380 42		
EXPENDED.			
For car tickets: —			
Boston Elevated Railway Co.		$50 00	
Stationery, printing, etc.: —			
City of Boston	$12 50		
J. A. Cummings Ptg. Co.	3 55		
J. L. Fairbanks & Co.	8 03		
		24 08	
Telephone service		22 34	
Typewriting, A. R. Andrews		4 88	
			$101 30
Amounts carried forward			$101 30 $6,500 00

Public Ways and Wastes — Continued.

BOSTON BRIDGES, GENERAL EXPENSES — Continued.

Amounts brought forward . .			$101 30	$6,500 00

Brookline Street Bridge.

For fuel: —				
Consumers' Co-operative Coal Co. . . .	$7 25			
Metropolitan Coal Co. .	19 20			
		$26 45		
Hardware, tools and supplies, E. T. Bynner		15 14		
Lighting: —				
Cambridge Gas Light Co.	$49 51			
Brookline Gas Light Co.	128 10			
		177 61		
Lumber: —				
C. E. Dearborn . .	$36 01			
E. B. James Lumber Co.	109 03			
Wm. H. Wood & Co. .	59 44			
		204 48		
Printing, J. Frank Facey . . .		3 75		
Repairing bridges: —				
John T. Scully & Bro. .	$99 13			
H. J. Shaw . . .	13 64			
		112 77		
Salt, Eastern Salt Co. . . .		1 10		
Stove, ventilator and repairs, A. M. Robbins		10 45		
			551 75	

Craigie Bridge.

Bedding, J H. Corcoran & Co. .		$3 00		
Cash expended for sundries, A. W. Smith		3 30		
Cleaning bridges, Austin Ford & Son		42 00		
Fittings, A. M. Morton & Co. . .		12 31		
Flag, Jordan, Marsh Co. . . .		3 00		
Fuel: —				
Consumers' Co-operative Coal Co. . . .	$144 04			
Metropolitan Coal Co. .	21 70			
		165 74		
Hardware, tools and supplies: —				
Dodge, Haley & Co. .	$3 20			
L. A. Stingel . . .	26 35			
		29 55		
Ice, Independent Ice Co. . . .		4 50		
Lighting: —				
Camb. Electric Light Co.	$247 52			
Edison Electric Illum. Co.	62 22			
		309 74		
Lumber: —				
John S Clary Lumber Co.	$34 99			
E. B. James Lumber Co.	105 76			
Geo. McQuesten Co. .	4 95			
Amounts carried forward .	$145 70	$573 14	$653 05	$6,500 00

Public Ways and Wastes — Continued.

BOSTON BRIDGES, GENERAL EXPENSES — Continued.

Amounts brought forward	$145 70	$573 14	$653 05	$6,500 00
For E. D. Sawyer Lumber Co.	35 77			
John M. Woods & Co	6 00			
		187 47		
Oil, Alden Speare's Sons Co.		6 38		
Repairing bridge: —				
John T. Scully & Bro.	$319 97			
H. J. Shaw	36 24			
		356 21		
Salt, Eastern Salt Co.		9 75		
Service transfers: —				
Watering bridge, Street Dept.	$31 00			
Stock and labor, Water Works Dept.	3 79			
Use of water, Water Works Dept.	1 20			
		35 99		
Water, Union Wharf Water Boats		4 00		
			1,172 94	

HARVARD BRIDGE.

Bedding, J. H. Corcoran & Co		$9 17		
Cement, Wm. H. Wood & Co.		1 20		
Current to draw, Cambridge Electric Light Co.		120 00		
Cash expended for expressage, James A. Gorman		50		
Cleaning bridge, Thos. O'Hara		72 38		
Fuel, Metropolitan Coal Co.		19 20		
Globes: —				
Cambridge Electric Light Co.	$6 50			
Union Glass Co.	6 50			
		13 00		
Hardware, tools and supplies: —				
E. T. Bynner	$32 57			
Dodge, Haley & Co.	13 38			
C. W. H. Moulton & Co.	1 50			
		47 45		
Ice, Boston Ice Co.		3 00		
Lighting: —				
Cambridge Electric Light Co.	$637 50			
Edison Electric Illuminating Co.	510 00			
		1,147 50		
Lumber: —				
E B James Lumber Co.	$330 86			
Geo McQuesten Co.	29 47			
Wm. H. Wood & Co.	26 49			
		386 82		
Amounts carried forward		$1,820 22	$1,825 99	$6,500 00

Public Ways and Wastes — Continued.

BOSTON BRIDGES, GENERAL EXPENSES — Continued.

Amounts brought forward . .	$1,820 22	$1,825 99	$6,500 00
For oil, Standard Oil Co. . . .	3 37		
Repairing armature, General Electric Co.	17 71		
Repairing bridge: —			
Bay State Dredging Co. $10 60			
John T. Scully & Bro. . 346 30			
H. J. Shaw . . . 72 85			
	429 75		
Salt, Eastern Salt Co. . . .	1 70		
Sand and spreading, John T. Scully & Bro.	17 50		
		2,290 25	
North Harvard Bridge. (Boylston Street.)			
Clock, Miller Bros	50		
Hardware, tools and supplies, E. T. Bynner	6 19		
Lumber: —			
Wm. H. Wood & Co. . $31 32			
E. B. James Lumber Co. 28 85			
	60 17		
Repairing bridge: —			
John T. Scully & Bro. . $22 87			
H. J. Shaw . . . 43 65			
	66 52		
Salt, Eastern Salt Co. . . .	1 10		
		134 48	
Prison Point Bridge.			
Bedding, Phillips Bros. & Co. . .	$1 75		
Fuel, Metropolitan Coal Co. . .	19 20		
Hardware, tools and supplies: —			
E. T. Bynner . . . 30			
Geo. W. Hobbs . . 2 29			
L. A. Stingel . . . 1 64			
	4 23		
Lumber, E. D. Sawyer Lumber Co. .	6 25		
Oils, etc., Wm Hewton . . .	7 64		
Plumbing, Thos. J. Hennigan . .	17 58		
Roof repairs, William Gordon . .	14 35		
		71 00	
River Street Bridge.			
Fuel, Metropolitan Coal Co. . .	$9 60		
Hardware, tools and supplies, E. T. Bynner	16 02		
Lighting, Cambridge Elec. Light Co.	49 51		
Lumber: —			
E. B. James Lumber Co. $38 46			
Wm H. Wood & Co. . 7 30			
	45 76		
Amounts carried forward . . .	$120 89	$4,321 72	$6,500 00

Public Ways and Wastes — Continued.

BOSTON BRIDGES, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$120 89	$4,321 72	$6,500 00
For repairing bridges: —				
John T. Scully & Bro. .	$34 37			
H. J. Shaw . . .	37 36			
		71 73		
Salt, Eastern Salt Co. . . .		1 10		
			193 72	

West Boston Bridge.

Bedding, J. H. Corcoran & Co. .		$3 40		
Cash expended for sundries, Walter B Hoitt		5 60		
Cleaning bridge, Austin Ford & Son		188 63		
Fuel: —				
Consumers' Co-operative Coal Co. . . .	$10 87			
Metropolitan Coal Co. .	21 70			
		32 57		
Hardware and supplies, Dodge, Haley & Co.		20 56		
Lighting: —				
Camb Electric Light Co.	$247 51			
Edison Electric Illum. Co.	373 32			
		620 83		
Oil, Standard Oil Co. . . .		7 05		
Salt, Eastern Salt Co. . . .		7 65		
			886 29	

Western Avenue Bridge.

Hardware, tools and supplies, E. T. Bynner		$45 19		
Lighting, Cambridge Elec. Light Co.		49 48		
Lumber: —				
Geo. W. Gale Lumber Co.	$27 04			
E. B. James Lumber Co.	230 92			
Geo. McQuesten Co. .	26 52			
Wm. H. Wood & Co. .	15 42			
		299 90		
Repairing bridge: —				
John T. Scully & Bro. .	$293 76			
H. J. Shaw . . .	53 05			
		346 81		
			741 38	
Total				6,143 11
Surplus of appropriation				$356 89
Transfer from this account to Collection of Ashes				100 00
Balance relinquished to General Treasury . . .				$256 89

Public Ways and Wastes — Continued.

BRIDGES. (4.12)

CAMBRIDGE BRIDGE.

Appropriation			$101,969 22
EXPENDED.			
For salaries of: —			
Commissioner, E. D. Leavitt		$1,250 00	
Chief Engineer, Wm. Jackson		1,500 00	
Assistant Secretary: —			
Edw A. Counihan		125 00	
Assistant Engineers: —			
John E Cheney	$1,000 00		
L F. Cutter	625 00		
F H Fay	148 75		
G. E. Harkness	652 00		
S. A Jubb	167 86		
H. F. Sawtelle	639 38		
E. C. Sherman	39 37		
F. P. Spalding	48 00		
M. G Woodward	900 00		
		4,220 36	
Draughtsmen: —			
A. F. Bildt	$18 00		
E. L. Russell	115 00		
		133 00	
Inspectors: —			
J P. Carroll	$906 00		
J. R. Hews	1,052 50		
T. Fitzmaurice	22 75		
		1,981 25	
Messenger, C. P. Collins		493 75	
Rodmen: —			
J. E. Martin	$395 00		
F. J. Steele	388 00		
		783 00	
Transitmen: —			
E Barnwell	$46 50		
J. F. Gorman	545 88		
F. M. Leonard	595 50		
R. Whitman	78 50		
		1,266 38	
Boatmen: —			
B. F. Fallon	$497 50		
John Mountain	236 25		
W. J. Sheehan	160 00		
		893 75	
Tallyman, M. J. Shea		283 75	
Clerical services: —			
Jas. A McKibben	$125 00		
Chas. S. Parsons	125 00		
		250 00	
			13,180 24
Amounts carried forward			$13,180 24 $101,969 22

Public Ways and Wastes — Continued.

CAMBRIDGE BRIDGE — Continued.

Amounts brought forward		$13,180 24	$101,969 22
For advertising: —			
Boston Daily Advertiser	$11 19		
Boston Herald Co	8 00		
Boston Transcript Co.	11 50		
Boston Traveler Co.	11 00		
Cambridge Chronicle	1 56		
Cambridge Press	6 25		
Engineering News Publishing Co.	18 00		
Engineering Record	13 50		
Globe Newspaper Co.	7 62		
Journal Newspaper Co.	13 20		
Post Publishing Co.	10 44		
David Williams Co.	13 37		
Sundry persons	4 66		
		130 29	
Binding, J. H. H. McNamee Co.		2 50	
Blue print paper and negatives: —			
Chas. E. Moss	$112 00		
Whitney & Son	34 50		
		146 50	
Building motor houses: —			
Lavash & Maloney		75 00	
Carpentry, John T. Scully & Bro.		1,558 00	
Carriage hire, James F. Ormond		6 50	
Cash expended for traveling expenses and sundries: —			
John E. Cheney	$18 00		
Walter B. Hoitt	4 04		
Wm. Jackson	117 60		
M. G. Woodward	91 82		
		231 46	
Dredging ship channel: —			
Bay State Dredging Co.		6,149 00	
Dolphins: —			
Holbrook, Cabot & Rollins Corp.		375 00	
Fuel, Coleman Bros.		20 63	
Hardware: —			
Boston Bolt Co	$153 77		
Dodge, Haley & Co.	157 39		
		311 16	
Inspection and tests of material used: —			
H. R. Leonard		1,076 85	
Iron work, H. J. Shaw		465 42	
Lead, Chadwick-Boston Lead Co.		2,389 27	
Lumber: —			
Geo. W. Gale Lumber Co.	$322 19		
E. B. James Lumber Co.	363 14		
Amounts carried forward	$685 33	$26,117 82	$101,969 22

Public Ways and Wastes — Continued.

CAMBRIDGE BRIDGE — Continued.

Amounts brought forward . .	$685 33	$26,117 82	$101,969 22
For Geo. McQuesten Co. . . .	804 98		
Wm. H. Wood & Co. . . .	2,121 71		
		3,612 02	
Motors, etc., General Electric Co. .		471 63	
Labor performed by Holbrook, Cabot & Rollins Corporation: —			
Building stone-cutter's platform .	$270 14		
Building ladders	100 29		
Building sewer box . . .	261 26		
Changing fence and bracing platform at draw	33 35		
Cutting stone	285 78		
Moving and repairing inspectors' office	17 85		
Putting hay and straw under Park Building	9 39		
Removing bulkhead . . .	517 03		
		1,495 09	
Piers: —			
Extra labor on piers, Holbrook, Cabot & Rollins Corporation .	$497 09		
Finishing two masonry abutments, Holbrook, Cabot & Rollins Corp.	3,000 00		
Filling piers five and six, Holbrook, Cabot & Rollins Corporation .	1,522 78		
Interior walls of ten piers, Holbrook, Cabot & Rollins Corp.	3,299 00		
Laying additional stone on piers, Holbrook, Cabot & Rollins Corp.	150 00		
Rear walls and filling at abutments, Holbrook, Cabot & Rollins Corp.	14,330 72		
Rebuilding sea wall, Holbrook, Cabot & Rollins Corporation .	2,320 49		
Setting upper stone work on ten masonry piers, Holbrook, Cabot & Rollins Corporation . .	4,221 83		
Unfinished work on ten piers, Holbrook, Cabot & Rollins Corp.	1,860 50		
Storing and delivering cornice stone, Rockport Granite Co. .	250 00		
Upper stonework for two masonry piers, Rockport Granite Co. .	4,025 60		
Upper stone work for eight masonry piers, Rockport Granite Co.	1,000 00		
		36,478 01	
Plans, etc.: —			
Professional services, E. M. Wheelwright	$1,200 00		
Draughting	729 25		
		1,929 25	
Plan case for engineers, Chas. Logue		25 00	
Amounts carried forward . . .		$70,128 82	$101,969 22

Public Ways and Wastes — Continued.

CAMBRIDGE BRIDGE — Concluded.

Amounts brought forward		$70,128 82	$101,969 22
For printing, stationery, etc.: —			
City of Boston	$1 47		
J. Frank Facey	50 00		
J. L. Fairbanks & Co.	4 50		
Edw. W. Wheeler	7 13		
		63 10	
Repairing bridge: —			
Metropolitan Contracting Co.		464 77	
Services inspecting work at shops of Phoenix Bridge Co., Robert W. Hunt & Co.		1,313 69	
Sign, Gill & Co.		7 00	
Steel work: —			
Steel superstructure, Phoenix Bridge Co.	$220,109 57		
Steel shoe castings, Phoenix Bridge Co.	24,080 62		
Steel work for abutments, Phoenix Bridge Co.	1,207 50		
Steel work for piers, Phoenix Bridge Co.	6,475 01		
		251,872 70	
Teaming and freight, D. S. Quirk Co.		6 83	
Testing metal, Edward F. Miller		12 50	
Telephone service		41 41	
Expenses of approach to Cambridge Bridge: —			
Examining title, Wm V. Thompson	$20 00		
Execution of court, Geo. B. Roberts	30,000 00		
Services as experts: —			
Wellington Fillmore $100 00			
Jerome C. Hosmer 50 00			
W. N. Young 50 00			
	200 00		
Services in connection with case of Crocker & Fisk, Trs., and B. F. Brown: —			
Chas. D Elliot $130 00			
L. M. Hastings 85 00			
	215 00		
Stenographic reports: —			
Herbert W. Gleason $73 76			
Henry P. Jones 22 87			
	96 63		
		30,531 63	
Total			354,442 45
Excess of expenditures over appropriation			$252,473 23
Additional appropriations			350,000 00
Balance relinquished to General Treasury			$97,526 77

Public Ways and Wastes — Continued.

BRIDGES. (4.12)

BRIDGES, STREET DEPARTMENT.

Appropriation				$3,100 00
	EXPENDED.			
For salaries of draw-tenders: —				
John Gaughan		$985 27		
James Corbalis		573 72		
J. F. Powers		454 36		
			$2,013 35	
Labor			417 16	
First Street Bridge, renewals and repairs: —				
Driving dolphin in canal, Holbrook, Cabot & Rollins		$75 00		
Hardware: —				
G. W. Burditt	$11 26			
Moynahan & Co.	2 00			
Sundry persons	3 40			
		16 66		
Heating apparatus, Moynahan & Co.		7 85		
Lumber: —				
John S. Clary Lumber Co.	$41 08			
Geo. W. Gale Lumber Co.	168 40			
Wm. H. Wood & Co.	4 33			
		213 81		
Oakum, Chas. A. Claflin & Co.		3 00		
Repairs, H. J. Shaw		3 35		
			319 67	
Third Street Bridge, renewals and repairs: —				
Links, Rawson & Morrison M'f'g Co.		$1 00		
Lumber, John S. Clary Lumber Co.		41 05		
			42 05	
Sixth Street Bridge, renewals and repairs: —				
Hardware, E T. Bynner		$9 30		
Lumber: —				
John S. Clary Lumber Co.	$41 05			
Wm. H. Wood & Co.	171 94			
		212 99		
Sundries		1 15		
			223 44	
Walden Street Bridge, renewals and repairs: —				
Lumber, John S. Clary Lumber Co.			41 05	
Wellington Street Bridge, renewals and repairs: —				
Lumber, John S. Clary Lumber Co.			41 05	
Total				3,097 77
Surplus of appropriation relinquished to General Treasury				$2 23

Public Ways and Wastes — Concluded.

MISCELLANEOUS. (4.13)

DAMAGES TO PERSONS AND PERSONAL PROPERTY.

Appropriation	$4,000 00

EXPENDED.

For damages awarded and suits settled: —		
Katherine C. Connell	$100 00	
Nettie Jeannette Dickinson	115 00	
Thos. F. Dynan	18 00	
John Foley	175 00	
Theodore C. Hurd	131 43	
Anna Lemieux	300 00	
Geo. F. McCusker	5 00	
Margaret F. O'Keefe	115 00	
John H. Phipps	15 00	
Catherine Reardon	500 00	
John E. Stokes	10 00	
John W. Sullivan	3 50	
Total		1,487 93
Surplus of appropriation		$2,512 07
Transfer from this account to Contingent Fund		2,000 00
Balance relinquished to General Treasury		$512 07

CIVIL SERVICE DEPARTMENT.

Appropriation	$250 00

EXPENDED.

For salary of clerk, Harry L. Lincoln		$200 00	
Binding, David Farquhar		2 60	
Stationery and supplies: —			
Wm. M. L. McAdams	$38 25		
Sundry persons	4 02		
		42 27	
Total			244 87
Surplus of appropriation relinquished to General Treasury			$5 13

5. PUBLIC INDUSTRIES AND INVESTMENTS.

WATER DEPARTMENT. (5.1)

CONSTRUCTION, GENERAL.

Appropriation	$17,000 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For freight charges refunded	$142 16
Labor and materials	1,935 88
Meters	67 60
	$2,145 64

EXPENDED.

For advertising: —			
Cambridge Chronicle		$9 56	
Expressage, Dodge Express Co.		41 97	
Examining title, Wm. V. Thompson		35 00	
Freight: —			
Boston & Maine Railroad	$2 22		
N. Y. Central & Hudson River Railroad	643 72		
		645 94	
Gate boxes: —			
Walworth Manufacturing Co.		54 90	
Hardware, tools and repairs: —			
James Maitland		9 10	
Labor, as per pay rolls		3,140 82	
Land: —			
Trustees of Payson Park Land Co.		1,547 68	
Lead: —			
Richards & Co.	$239 83		
Simplex Electrical Co.	7 20		
Waite, Ranlet & Co.	356 85		
		603 88	
Lumber, Geo. W. Gale Lumber Co.		20 93	
Meters: —			
Neptune Meter Co.	$180 00		
Henry R. Worthington	70 00		
		250 00	
Pipe: —			
Builders Iron Foundry	$370 68		
Chas. Miller & Son Co.	3,898 45		
Walworth Manufacturing Co.	10 26		
		4,279 39	
Printing, Cambridge Chronicle		25 50	
Recording deed, Edwin O. Childs		1 25	
Amounts carried forward		$10,665 92	$17,000 00

Public Industries and Investments — Continued.

WATER DEPT., CONSTRUCTION, GENERAL — Concluded.

Amounts brought forward . .		$10,665 92	$17,000 00
For Release, Right of Way: —			
Edw. E. Floyd, *et al*, Trustee .		1,000 00	
Repairing asphalt pavement: —			
Warren Bros. Co.		19 25	
Repairing drains, Samuel McCulloch		15 05	
Service transfer: —			
Cracked stone, Street Dept. . .		9 20	
Services of plumbers: —			
A. Baumeister	$10 00		
J. T. Phelan	10 00		
		20 00	
Stenographic reports: —			
Herbert W. Gleason . . .		79 45	
Standard specifications: —			
N. E. Water Works Association .		1 20	
Unloading pipe, Andrew A. Magnus .		12 00	
Valves, hydrants, and fittings: —			
Builders Iron Foundry . . .	$207 60		
Chapman Valve Manufacturing Co.	1,388 76		
A. P. Smith Manufacturing Co. .	177 10		
Walworth Manufacturing Co. .	5 46		
		1,778 92	
Total			13,600 99
Surplus of appropriation relinquished to General Treasury			$3,399 01

WATER DEPARTMENT. (5.1)

CONSTRUCTION, METERS.

Appropriation	$2,500 00

EXPENDED.

For labor, as per pay-roll . . .		$813 25	
Advertising, Cambridge Chronicle .		2 39	
Expressage: —			
Dodge Express Co. . . .	$16 65		
American Express Co. . . .	80		
		17 45	
Amounts carried forward . . .		$833 09	$2,500 00

Public Industries and Investments — Continued.

WATER DEPT., CONSTRUCTION, METERS — Concluded.

Amounts brought forward		$833 09	$2,500 00
For hardware and supplies: —			
E. T. Bynner	$2 83		
Greene & Co.	1 99		
Jas. Maitland	3 75		
		8 57	
Lumber and cement: —			
Geo. W. Gale Lumber Co.	$78 71		
E. D. Sawyer Lumber Co.	25 38		
		104 09	
Meter frames and boxes: —			
Barbour-Stockwell Co	$26 00		
Charles F. Merrill	36 00		
		62 00	
Meters and fittings: —			
Hersey Manufacturing Co.	$30 00		
Pittsburg Meter Co.	417 36		
Thomson Meter Co.	3 00		
Henry R. Worthington	2,353 10		
		2,803 46	
Pipe, David W. Lewis Co.		15 50	
Solder, Levi Hawkes		3 00	
Valves and fittings: —			
Greene & Co.	$3 25		
Walworth Manufacturing Co.	166 16		
		169 41	
Total			3,999 12
Excess of expenditures over appropriation			$1,499 12
Additional appropriation			1,500 00
Balance relinquished to General Treasury			88

WATER DEPARTMENT. (5.1)

CONSTRUCTION.

HOBBS' BROOK ACCOUNT, GENERAL.

Appropriation			$200 00
EXPENDED.			
For plumbing, etc: —			
James E. Burke		$28 75	
Arthur L. Hersum		48 09	
Total			76 84
Surplus of appropriation relinquished to General Treasury			$123 16

Public Industries and Investments — Continued.

WATER DEPARTMENT. (5.1)

CONSTRUCTION.

HOBBS' BROOK ACCOUNT, LAND SETTLEMENTS.

Appropriation		$5,000 00
EXPENDED.		
For examination of title, C. F. French	$15 00	
Services, Geo. M. French	6 00	
Services in Evans case, C. S. Wheeler	200 00	
Total		221 00
Surplus of appropriation relinquished to General Treasury		$4.779 00

WATER DEPARTMENT. (5 1)

CONSTRUCTION.

STONY BROOK MAIN.

Appropriation			$7,517 82
EXPENDED.			
For laborers as per pay-rolls	$312 72		
Engineers as per pay-rolls	502 94		
		$815 66	
Borings, Gow & Palmer		247 70	
Bricks, N. E. Brick Co.		11 25	
Brushes, E. T. Bynner		60	
Carting, T. E. Colburn		5 00	
Chimneys, Geo. F. Dickson		3 38	
Expenses of inspection of Water Works System: —			
Carriage hire: —			
J. J. Callahan	$5 00		
John J. Corkery	5 00		
Chas. W. Dailey	5 00		
Frank P. Merrill	5 00		
George D Merrill	5 00		
Michael J. Murphy	5 00		
John Nixon	5 00		
Fred D. Norton	10 00		
H. K. Parsons & Co.	5 00		
Potter's Stables	5 00		
Prospect Stables	5 00		
G. F Whiting & Co.	5 00		
	$65 00		
Cigars, Holderer & Macdonald	18 25		
Cigar cases, The Holland Press	1 00		
Amounts carried forward	$84 25	$1,083 59	$7,517 82

Public Industries and Investments — Continued.

CONSTRUCTION, STONY BROOK MAIN — Concluded.

Amounts brought forward . .		$84 25	$1,083 59	$7,517 82
For dinners :—				
Mrs. J. E. Bryant .	$35 00			
Frederick Wilkey, Prop.	71 55			
		106 55		
Special Car : —				
Newton St. Railway Co. . .		5 00		
			195 80	
Expressage, Sawin's Express . .			75	
Freight, Boston & Maine Railroad			9 96	
Gage cocks : —				
Crosby Steam Gage & Valve Co. .			3 00	
Maps and diagrams : —				
The Heliotype Printing Co. . .			42 50	
Meter fittings : —				
Builders Iron Foundry . . .			15 00	
Negatives and prints, Whitney & Son			75 00	
Pipe fittings, castings, etc : —				
Barbour-Stockwell Co. . . .		$444 10		
Chapman Valve Manufacturing Co.		71 06		
Davis & Farnum Manufacturing Co.		62 51		
Metropolitan Water & Sewerage Board		19 95		
Taunton Locomotive Manufacturing Co.		335 10		
			932 72	
Repairing instruments, G. G. Ledder			10 70	
Services as engineer, Freeman C. Coffin			966 52	
Stationery and printing : —				
J. A. Cummings Printing Co. .		$64 70		
Monk & Bordley		13 50		
Thorp & Martin Co. . . .		1 00		
			79 20	
Steel tape, etc. : —				
Frost & Adams Co. . . .		$10 13		
The Lufkin Rule Co. . . .		8 16		
			18 29	
Testing water, Stephen P. Sharples			15 00	
Tool bags, Tobias & Wall . . .			6 00	
Total				3,454 03
Surplus of appropriation relinquished to General Treasury				$4,063 79

Public Industries and Investments — Continued.

WATER DEPARTMENT. (5.1)

MAINTENANCE.

SALARIES OF SUPERINTENDENT, REGISTRAR, CLERK OF BOARD, INSPECTORS AND CLERKS.

Appropriation		$9,540 00
EXPENDED.		
For salaries of: —		
Superintendent, E. C. Brooks	$2,000 00	
Registrar, W. H. Harding	2,000 00	
Inspectors: —		
F. G. Davis	$1,000 00	
C. E. McGuire	1,000 00	
	2,000 00	
Clerks: —		
H. L. Lincoln	$1,200 00	
H. F. Milligan	787 50	
M. M. Robbins	630 00	
F. W. Cone	846 00	
	3,463 50	
Total		9,463 50
Surplus of appropriation relinquished to General Treasury		$76 50

WATER DEPARTMENT. (5.1)

MAINTENANCE.

GENERAL EXPENSES.

Appropriation		$22,500 00
DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.		
For maintenance	$1,093 07	
Off and on	617 00	
Rent	168 00	
Seals	101 25	
Supply	3,382 97	
Rates, fines, etc.	346,320 14	
	$351,682 43	
EXPENDED.		
For labor, as per pay-rolls	$17,546 63	
Salary of Treasurer of Water Loan Sinking Fund, Wm. W. Dallinger	200 00	
Amounts carried forward	$17,746 63	$22,500 00

Public Industries and Investments — Continued.

WATER DEPARTMENT, MAINTENANCE, GENERAL EXPENSES—Continued.

Amounts brought forward . .		$17,746 63	$22,500 00
For advertising: —			
Cambridge Chronicle . . .	$13 21		
Cambridge Press	9 00		
Cambridge Sentinel Publishing Co.	16 00		
The Cambridge Tribune . . .	14 00		
Times Publishing Co. . .	18 50		
		70 71	
Boiler and tank: —			
Riverside Boiler Works . . .	$5 00		
Roberts Iron Works Co. . .	10 66		
		15 66	
Blackite, Robert W. Neff . . .		21 50	
Binders, Clarke Loose Leaf Book Co.		5 20	
Carpentry: —			
W. Fillmore Co.	$69 72		
C. S. Newcomb	79 82		
W. H. Norris	4 88		
		154 42	
Car tickets and transportation: —			
Boston Elevated Railway Co. .	$265 00		
Boston & Maine Railroad . .	14 70		
		279 70	
Carriage and wagon repairs: —			
Joseph E. Bonin	$5 60		
Chas. Waugh & Co. . . .	256 44		
		262 04	
Carriage hire, G. F. Whiting & Co.		83 50	
Clay, David W. Lewis Co. . .		3 50	
Cloth, J. H. Corcoran & Co. . .		20	
Damage from bursting of water main: —			
James W. Coleman . . .		6 00	
Diaphragms: —			
Edson Manufacturing Co. . .		5 70	
Directories, W. A. Greenough & Co.		3 50	
Drilling holes in fountain: —			
Alex. McDonald & Son . . .		2 75	
Expressage: —			
American Express Co. . . .	$3 45		
Butland & Son	15		
Dodge Express Co. . . .	30 68		
Savage & Son	1 30		
Sawin's Express	3 25		
		38 83	
Fuel: —			
Coleman Bros.	$94 89		
Cambridge Gas Light Co. . .	8 33		
		103 22	
Freight, Boston & Maine Railroad .		35	
Amounts carried forward . .		$18,803 41	$22,500 00

Public Industries and Investments — Continued.

WATER DEPARTMENT, MAINTENANCE, GENERAL EXPENSES—Continued.

Amounts brought forward . .		$18,803 41	$22,500 00
For floral decorations in office on occasion of fiftieth anniversary of Cambridge as a City: —			
P. O'Brien & Son		25 00	
Glazing: —			
Henry Haley	$5 16		
Geo. H. Hughes	7 00		
		12 16	
Hardware, tools and repairs, and supplies: —			
Harold L. Bond & Co. . . .	62		
Boston Belting Co. . . .	62 44		
Boston Bolt Co.	2 54		
Joseph Breck & Sons . . .	17 00		
The Bristol Co.	5 00		
E. T. Bynner	128 32		
Cambridge Plating Co. . . .	1 00		
Chandler & Farquhar Co. . .	30 91		
Dodge, Haley & Co. . . .	8 50		
Globe Gas Light Co. . . .	3 50		
Greene & Co.	8 40		
Levi Hawkes	2 96		
G. W. Hayden	68		
J. A Holmes & Co. . . .	9 75		
Henry F Jenks	14 00		
James Maitland	205 35		
C. W. H. Moulton & Co. . .	4 00		
Page Belting Co.	3 49		
C. N Phelps	2 00		
F. L Sawtell	2 50		
H. J Shaw	4 34		
Simplex Electrical Co. . . .	9 25		
Walworth Manufacturing Co. .	107 94		
Yerxa & Yerxa	2 00		
		636 49	
Harness repairs and horse clothing: —			
L. C Chase & Co.	$10 02		
Wm. H. Roberts	76 00		
		86 02	
Hay, grain, etc.: —			
J. Cushing & Co.		699 95	
Hay tedder, Joseph E. Bonin . .		9 50	
Horses, Welch & Hall Co. . . .		262 48	
Horse clipping, Ferris & Co. . .		6 00	
Horseshoeing: —			
Wm Balmer	$49 25		
John F. Gurry & Sons . . .	37 75		
Thos. Smith & Sons . . .	63 00		
		150 00	
Hose, Boston Woven Hose Co. . .		6 13	
Ice, Fresh Pond Ice Co. . . .		5 87	
Amounts carried forward . . .		$20,702 51	$22,500 00

Public Industries and Investments — Continued.

WATER DEPARTMENT, MAINTENANCE, GENERAL EXPENSES—Continued.

Amounts brought forward		$20,702 51	$22,500 00
For ice tongs, A. M. Robbins		25	
Inspectors' badges, A. J. Berge & Co.		6 00	
Lighting and motor service: —			
Cambridge Electric Light Co.	$158 00		
Cambridge Gas Light Co	9 30		
		167 30	
Legal services, Robert P. Clapp		110 00	
Lumber and cement: —			
Geo. W. Gale Lumber Co.		31 16	
Meters, fittings and repairs: —			
Hersey Manufacturing Co.	$116 06		
Neptune Meter Co.	87 65		
Pittsburg Meter Co.	9 00		
Thomson Meter Co.	11 99		
Union Water Meter Co.	36 90		
Henry R. Worthington	22 80		
		284 40	
Oil, Standard Oil Co.		53 30	
Painting, Geo. E. Sawyer & Co.		4 07	
Pipe, fittings and repairs, etc.: —			
Barbour-Stockwell Co.	$56 30		
Chadwick-Boston Lead Co.	16 00		
Chapman Valve Manufacturing Co.	102 50		
Davis & Farnum Manufacturing Co.	118 00		
Edw. Kendall & Sons	21 20		
Lead Lined Iron Pipe Co.	36 64		
W. B. Mooers	2 80		
Ross Valve Co.	12 82		
H. J Shaw	7 39		
Walworth Manufacturing Co.	2,702 88		
		3,076 53	
Plumbing: —			
W Haley	$2 00		
Wm H. O'Leary	3 60		
H. L. Rose	4 00		
		9 60	
Rent of box: —			
Cambridge Safe Deposit & Trust Co.		40 00	
Repairing man-hole: —			
Samuel McCulloch		8 13	
Repairing recording gauge: —			
The Bristol Co.		6 50	
Rubber boots: —			
Estate of S. L. Nickerson		7 00	
Services as appraiser, W. H. Temple		5 00	
Amounts carried forward		$24,511 75	$22,500 00

Public Industries and Investments -- Continued.

WATER DEPARTMENT, MAINTENANCE, GENERAL EXPENSES—Concluded.

Amounts brought forward . .		$24,511 75	$22,500 00
For services as electrical expert: —			
Chas. H. Morse		200 00	
Service transfers: —			
Postage and Stationery Account .	$37 68		
Street Department: —			
Horseshoeing . . $81 34			
Paving . . . 130 84			
	212 18		
Sealer of Weights and Measures: —			
Sealing	4 09		
		253 95	
Stationery, printing, etc.: —			
Blackbird Pen Co.	$1 25		
Cambridge Chronicle . . .	278 50		
Cotton & Gould	58 87		
J. A. Cummings Printing Co. .	52 49		
Dennison Manufacturing Co. .	5 23		
Wm. M L. McAdams . . .	46 75		
Remington Typewriter Co. . .	3 50		
Thorp & Martin Co. . . .	120 38		
Times Publishing Co. . . .	5 75		
		572 72	
Stenography and typewriting: —			
Marion I. Harding		13 00	
Subscriptions: —			
Engineering News Publishing Co.	$5 00		
Geo. E. French	6 00		
Water & Gas Review Publishing Co.	1 00		
		12 00	
Taxes: —			
City of Waltham	$586 52		
Town of Belmont	273 17		
" " Lexington . . .	248 14		
" " Lincoln	123 58		
" " Weston	61 60		
		1,293 01	
Telephone service		286 05	
Valves, hydrants and repairs: —			
Ashton Valve Co.	$6 52		
Geo. F. Blake Manufacturing Co. .	3 08		
Chapman Valve Manufacturing Co.	518 67		
H. J. Shaw	2 75		
		531 02	
Total			27,673 50
Excess of expenditures over appropriation . . .			$5,173 50
Additional appropriation			5,177 08
Balance relinquished to General Treasury . . .			$3 58

Public Industries and Investments — Continued.

WATER DEPARTMENT. (5.1)

MAINTENANCE.

PUMPING, SALARIES AND LABOR.

Appropriation			$6,900 00
EXPENDED.			
For salaries of engineers: —			
E. I. Harris	$1,401 86		
W. H. Blaisdell	398 36		
		$1,800 22	
Assistant engineers: —			
W. H. Blaisdell	$855 42		
Geo. F. Haven	31 43		
		886 85	
Labor, as per pay-rolls		4,402 18	
Total			7,089 25
Excess of expenditures over appropriation			$189 25
Transfer to this account from Pumping, General Expenses			200 00
Balance relinquished to General Treasury			$10 75

GENERAL EXPENSES.

Appropriation			$10,710 00
EXPENDED.			
For advertising and printing: —			
Cambridge Chronicle		$16 69	
Bicycle repairs, J. L. Moseley		29 50	
Boots, Rosenberg's Branch		6 50	
Building wall, Frank J. O'Reilley		187 80	
Bricks, clay, etc., D. W. Lewis Co.		116 25	
Carpentry, C. S. Newcomb		52 11	
Cement, Eastern Clay Goods Co.		8 50	
Disinfectant, Hayden & Co.		4 00	
Engine and boiler supplies, and repairs: —			
American Steam Gauge & Valve Co.	$1 15		
E. B Badger & Sons Co.	20 50		
Barbour-Stockwell Co.	3 50		
Geo. F. Blake Manufacturing Co.	17 85		
Boston Belting Co.	13 20		
Amounts carried forward	$56 20	$421 35	$10,710 00

Public Industries and Investments — Continued.

WATER DEPARTMENT, MAINTENANCE, PUMPING, GENERAL EXPENSES — Continued.

Amounts brought forward	$56 20	$421 35	$10,710 00
For Boston Bolt Co.	3 11		
A. W. Chesterton & Co.	76 99		
Crosby Steam Gage & Valve Co.	1 55		
Garlock Packing Co.	132 92		
J. E. Grundy & Co.	5 50		
The Hart Packing Co.	10 31		
Edward Kendall & Sons	3 85		
Keystone Lubricating Co.	103 20		
Locke Regulator Co	41		
Wm. B. Merrill & Co.	8 00		
Frank J. O'Reilly	56 00		
John Reardon & Sons	2 28		
W. W. Reid Manufacturing Co.	1 25		
H. J Shaw	7 78		
R. R. Sherman Co.	9 50		
Alden Speare's Sons Co.	76 53		
Star Brass Manufacturing Co.	45 58		
Walworth Manufacturing Co.	10 39		
Watts Regulator Co.	10 50		
Geo. E Winslow	5 16		
		627 01	
Cash expended for car fares: —			
E. I. Harris		11 65	
Electrical work and supplies: —			
F. Bryant & Co	$36 83		
H. A. Littlefield & Co.	34 20		
		71 03	
Expressage: —			
American Express Co.	$1 55		
Dodge Express Co.	50		
Hazlett's Express Co.	1 00		
Savage & Son	25		
Sawin's Express	16 44		
		19 74	
Fuel, Metropolitan Coal Co.		7,953 93	
Hardware, tools and repairs, and supplies: —			
Brock Bros.	$14 18		
E. T. Bynner	42 64		
Chandler & Farquhar Co.	10 47		
Heath & Milligan Manufacturing Co.	5 00		
H. A. Littlefield & Co.	90		
Jas. Maitland	3 38		
A. J. Wilkinson & Co.	2 06		
Geo. E. Winslow	52		
Jas. H. Wyeth & Co.	4 40		
		83 55	
Heating apparatus repairs: —			
Greene & Co.		15 55	
Ice, Fresh Pond Ice Co.		29 00	
Amounts carried forward		$9,232 81	$10,710 00

Public Industries and Investments — Continued.

WATER DEPARTMENT, MAINTENANCE, PUMPING, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$9,232 81	$10,710 00
For lumber, lime etc. : —			
Geo. W. Gale Lumber Co. . .		2 50	
Oil, polish etc. : —			
Eastern Oil and Gasoline Supply .	$3 20		
Standard Oil Co.	22 01		
Geo. Wm. Waite Co. . . .	4 50		
I. H. Wiley & Co.	3 06		
W. A. Wood Co.	125 40		
		158 17	
Painting, papering and plastering :—			
Chas. Atkins Co.	$16 45		
Henry Haley	669 46		
		685 91	
Sundry house furnishings and tools : —			
E. I. Harris		40 00	
Telegram : —			
Western Union Telegraph Co. .		70	
Telephone service		60 74	
Ties, spikes and labor : —			
Boston & Maine Railroad . .		28 11	
Total			10,208 94
Surplus of appropriation			$501 06
Transfer from this account to Fresh Pond Grading .			300 00
Transfer from this account to Pumping, Salaries .			200 00
Balance relinquished to General Treasury . . .			$1 06

WATER DEPARTMENT. (5.1)

MAINTENANCE.

ICE FOR FOUNTAINS.

Appropriation			$500 00
EXPENDED.			
For ice : —			
Cambridge Ice Co.	$96 75		
Fresh Pond Ice Co. . . .	218 10		
Independent Ice Co. . . .	145 50		
		$460 35	
Total			460 35
Surplus of appropriation relinquished to General Treasury			$39 65

Public Industries and Investments — Continued.

WATER DEPARTMENT. (5.1)

MAINTENANCE.

FRESH POND RESERVOIR.

Appropriation			$12,000 00
EXPENDED.			
For labor, as per pay-rolls		$7,749 50	
Advertising, Cambridge Chronicle		1 02	
Bicycle repairs, J. L. Moseley		9 25	
Carpentry, C. S Newcomb		5 43	
Disinfectant, Bowker Insecticide Co.		2 00	
Expressage: —			
Dodge Express Co.	$3 28		
Drayton's Express	2 00		
Sawin's Express	3 75		
		9 03	
Fence, Joseph Breck & Sons		58 00	
Glazing, Henry Haley		2 00	
Hardware, tools and repairs, and supplies: —			
Jos. Breck & Sons	$53 67		
Brock Bros.	4 91		
Brock & Eaton	1 05		
E. T. Bynner	6 08		
James Maitland	8 99		
		74 70	
Harness and repairs, Wm. H. Roberts		26 00	
Hay, grain, etc , J. Cushing & Co.		52 80	
Landscape gardener: —			
Malcolm A. Carpenter		600 00	
Lumber, Geo. W. Gale Lumber Co.		12 90	
Painting boat, W. J. Edwards		11 40	
Services as auctioneer, John J. Ahern		5 00	
Service transfer: —			
Horseshoeing, Street Dept.		4 20	
Use of water: —			
Metropolitan Water and Sewerage Board		1,218 70	
Teaming, James Gray		155 00	
Total			9,996 93
Surplus of appropriation relinquished to General Treasury			$2,003 07

Public Industries and Investments — Continued.

WATER DEPARTMENT. (5.1)

MAINTENANCE.

FRESH POND RESERVOIR, GRADING.

Appropriation			$10,000 00
EXPENDED.			
For labor, as per pay-rolls		$7,668 91	
Salary of landscape gardener: —			
Malcolm A. Carpenter		200 00	
Car tickets: —			
Boston Elevated Railway Co.		10 00	
Constructing wall: —			
John B. Byrne		272 19	
Expressage, Dodge Express Co.		2 45	
Hardware, tools and repairs, and supplies: —			
Ames Plow Co.	$37 58		
Harold L. Bond Co.	1 70		
Jos. Breck & Sons Corp.	7 00		
E. T Bynner	121 22		
Dodge, Haley & Co.	1 29		
James Maitland	18 36		
		187 15	
Lumber and posts: —			
Geo. W. Gale Lumber Co.		104 97	
Repairing bicycle: —			
J. L. Moseley Estate		1 40	
Professional services of landscape architects and surveyors: —			
French & Bryant	$310 78		
Olmsted Bros.	230 55		
		541 33	
Teaming, sundry persons		3,511 60	
Total			12,500 00
Excess of expenditures over appropriation			$2,500 00
Transfer to this account from Maintenance, Stony Brook		2,200 00	
Transfer to this account from Pumping, General Expenses		300 00	
			2,500 00

Public Industries and Investments — Continued.

WATER DEPARTMENT.

MAINTENANCE.

HOBBS' BROOK RESERVOIR.

Appropriation		$1,500 00
EXPENDED.		
For keeper, J. E. Bryant	$736 00	
Labor. as per pay rolls	42 00	
Carriage and wagon repairs: —		
Thomas Evans	17 00	
Hardware and supplies, J. A. Higgins	9 93	
Hay, grain etc., J. Cushing & Co.	78 60	
Horseshoeing, F. G. Helm	41 80	
Professional services: —		
A. Greenwood, M. D.	240 00	
Repairing pump, Fred H. Kirwin	7 50	
Telephone service	47 67	
Taxes, Town of Lexington	248 14	
Total		1,468 64
Surplus of appropriation relinquished to General Treasury		$31 36

WATER DEPARTMENT. (5.1)

MAINTENANCE.

PAYSON PARK RESERVOIR.

Appropriation		$800 00
EXPENDED.		
For keeper, Alfred Mason	$736 00	
Labor, as per pay-rolls	18 00	
Electrical work, F Bryant & Co.	28 20	
Hardware and supplies, E. T. Bynner	2 13	
Total		784 33
Surplus of appropriation relinquished to General Treasury		$15 67

Public Industries and Investments — Continued.

WATER DEPARTMENT. (5.1)

MAINTENANCE.

STONY BROOK RESERVOIR.

Appropriation			$5,200 00
EXPENDED.			
For gateman, Silas Baxter		$917 50	
Cleaning cess-pools, F. E. Coburn		279 02	
Cesspool frames and covers: —			
Waltham Foundry Co.		5 00	
Diaphragms: —			
Edson Manufacturing Co.		5 70	
Fuel and cement, G. F. Frost		37 42	
Hay and grain, J. Cushing & Co.		70 60	
Hardware, tools and supplies: —			
J. A. Higgins	31 86		
Morss & Whyte	56 40		
		88 26	
Horseshoeing and wagon repairs: —			
M. E. Crouse		23 45	
Lumber, Buttrick Lumber Co.		44 48	
Mason work, Jas. E. Burke		6 00	
Plumbing, Arthur L. Hersum		6 75	
Professional services: —			
A. Greenwood, M. D.		240 00	
Repairing screens: —			
Barbour-Stockwell Co.	$100 64		
Herbert Baxter	4 50		
		105 14	
Signs, May & Freeman		4 00	
Special police duty, Geo. Faber		6 65	
Taxes: —			
City of Waltham	$565 94		
Town of Belmont	276 42		
Town of Lincoln	123 58		
Town of Weston	59 50		
		1,025 44	
Telephone service		57 30	
Transportation, Boston & Maine R. R.		22 75	
Teaming, Thos. J. Gavin Co.		8 75	
Use of water, City of Waltham		14 00	
Wagon repairs, Chas. Waugh & Co.		21 75	
Window screens, May & Freeman		10 00	
Total			2,999 96
Surplus of appropriation			$2,200 04
Transfer from this account to Fresh Pond, Grading			2,200 00
Balance relinquished to General Treasury			04

Public Industries and Investments — Concluded.

WATER DEPARTMENT. (5.1)

RENT

Appropriation		$1,200 00
EXPENDED.		
For rent, City Real Estate	$1,200 00	
Total		1,200 00

WATER DEPARTMENT. (5.1)

ABATEMENTS.

Appropriation		$4,000 00
EXPENDED.		
For abatements allowed on water rates	$3,917 88	
Total		3,917 88
Surplus of appropriation relinquished to General Treasury		$82 12

REFUNDS.

Appropriation		$3,500 00
EXPENDED.		
For refunds on water rates	$3,373 75	
Total		3,373 75
Surplus of appropriation relinquished to General Treasury		$126 25

CAMBRIDGE WATER WORKS.

In account with the City of Cambridge for the year ending November 30, 1904.

RECEIPTS AND EXPENDITURES.

Balance to the credit of Construction Accounts, Dec. 1, 1903	$12,647 06	Expended for: — Construction Accounts	$21,851 98
Receipts for the year	2,145 64		
Deficit in Construction Account	7,059 28		
	$21,851 98		$21,851 98
Balance to the credit of Maintenance Accounts, Dec. 1, 1903	$4,280 00	Expended for: —	
		Maintenance	$97,845 40
Receipts for the year: —		Interest	126,126 50
Rates	346,320 14	Sinking Fund	121,522 50
Miscellaneous	5,362 29	Abatements and Refunds	7,291 63
		Balance to the credit of Interest	3,176 40
	$355,962 43		$355,962 43

6. PUBLIC EDUCATION.

SCHOOLS. (6.1)

SALARIES, JANITORS AND OTHERS.

Appropriation	$37,000 00

EXPENDED.

For salaries of janitors and other employees	$36,739 11	
Total		36,739 11
Surplus of Appropriation		260 89
Transfer from this account to City Building Account, General Expenses		250 00
Balance relinquished to General Treasury		$10 89

GENERAL EXPENSES.

Appropriation	$50,000 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For old furniture	$35 75
Old iron and junk	229 96
Repairing roof of Washington School House: —	
National Surety Co.	52 15
	$317 86

EXPENDED.

For execution of court: —			
Lynch & Woodward		$111 02	
Fuel: —			
Consumers' Co-operative Coal Co.		$39 25	
P. F. Gayton & Co.		211 80	
Metropolitan Coal Co.		20,665 19	
Weighing coal: —			
Wm. Coxon	$3 25		
Wm. D. Donovan	62 00		
John P. Healy	7 50		
		72 75	
			20,988 99
Lighting: —			
Cambridge Electric Light Co.		$1,771 47	
Cambridge Gas Light Co.		776 22	
New cable and fuses, Cambridge Electric Light Co.		75 80	
			2,623 49
Amounts carried forward		$23,723 50	$50,000 00

Public Education — Continued.

SCHOOLS, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$23,723 50	$50,000 00
For service transfers: —			
Repairs, Electrical Dept., Wire Account	$2 60		
Off and on, Water Dept. . .	2 00		
Sand, Street Dept.	69		
		5 29	
Use of horse and carriage: —			
T. W. Hillier & Co. . . .		170 00	
Repairs and alterations: —			
Carpentry: —			
C. H Callahan	$134 20		
D. K Dinsmore	1,079 41		
W. Fillmore Co.	275 45		
J. J. Foley	17 88		
O. B. French	3 15		
F. B. Furbish	408 72		
C T. Grames	6 87		
F. L. Leydon	1,040 61		
C. Mahoney	314 07		
S. F. McArthur	147 36		
W. H Norris	27 02		
F. Poitrast	29 73		
Thos. Powers	379 85		
John Quin & Son	576 32		
W. W. Tobey	94 57		
Gus Wilson	283 78		
		4,818 99	
Attaching addition to chimney: —			
Albert B. Low		30 00	
Clearing water from basement: —			
Thos. A. Hughes . . .		24 00	
Drains, Samuel McCulloch . .		385 50	
Expressage and moving furniture: —			
P. Biggin	$123 75		
Danehy's Express . . .	3 35		
Donovan's Express . . .	8 69		
Frank D. Kenney	57 00		
Sundry persons	1 50		
		194 29	
Fences: —			
D. K. Dinsmore	$86 60		
C. J McCann	25 00		
Andrew L. Pollock . . .	660 00		
		771 60	
Granolithic walks, Simpson Bros. .		50 00	
Heating and ventilating repairs: —			
Brock Bros.	$343 57		
Brock & Eaton	185 78		
Frank H. Brown	16 65		
Amounts carried forward . . .	$546 00	$30,173 17	$50,000 00

Public Education — Continued.

SCHOOLS, GENERAL EXPENSES — Continued.

Amounts brought forward . .	$546 00	$30,173 17	$50,000 00
For Campbell Iron Works . . .	6 50		
Isaac Coffin & Co. . . .	278 35		
J. L. Downing	240 00		
P. R. Duffy	11 65		
S. D. Fallon	174 54		
T. W. Good	74 60		
Greene & Co.	32 31		
Higgins & Co.	127 01		
T. H. Kneeland	11 70		
John J. Long	20 20		
Lynch & Woodward . . .	205 01		
Chas. H. Millner	278 60		
Moynahan & Co.	473 83		
Wm. H. O'Leary	330 73		
J. E A. Plante	6 00		
Roberts Iron Works Co. . .	150 69		
Sundry persons	5 39		
		2,973 11	
Inspection of boilers, S. C. Baxter		80 00	
Iron gate, A. B. Robbins . .		30 00	
Labor at storehouse, and removing rubbish: —			
M. F. Marks	$25 00		
Wm. P. Purcell	9 00		
Jeremiah Sullivan . . .	7 00		
		41 00	
Lighting apparatus and electrical work: —			
F. Bryant & Co.	$107 12		
E. W Clark	12 60		
Clark & Mills Electrical Co. .	13 50		
Thos. J. Daly	82 30		
Geo. F. Dickson	82 83		
Johnson Electric Service Co. .	1 00		
B E McDermott & Co. . .	16 20		
Warren W. Scott . . .	45 06		
J. E. Sutherland	4 00		
		364 61	
Mason work: —			
John B. Byrne	$329 06		
John Delaney	97 05		
M. X. Larose	54 75		
Thos Leahy & Son . . .	248 54		
Henry McGahey	897 00		
Frank J. O'Reilly . . .	416 79		
Walsh Bros.	167 70		
F. O. White Construction Co. .	433 48		
		2,644 37	
Painting, whitening, glazing, etc: —			
J. L. P. Ackers	$11 90		
C. P. Alberts	181 40		
Wm. C Carroll	294 47		
Thos. Cummiskey . . .	146 50		
W. J Edwards	350 00		
Amounts carried forward . . .	$984 27	$36,306 26	$50,000 00

Public Education — Continued.

SCHOOLS, GENERAL EXPENSES — Continued.

Amounts brought forward . .	$984 27	$36,306 26	$50,000 00
For M. A. Feeley	1,129 65		
J. J. Ferguson	58 83		
John J. Foley	25 00		
Harrington & Howell . . .	720 00		
M. L. Hurley & Co. . . .	510 00		
J. Leo McDonald	619 51		
Chas. E McMenimen . . .	708 95		
D. Mountain	505 84		
T. Murphy	46 70		
Austin A. O'Toole . . .	344 00		
		5,652 75	
Plaster work: —			
Harrington & Howell . . .	$377 21		
Wm. J. Heron	13 99		
M. L. Hurley & Co. . . .	50 00		
		441 20	
Plumbing: —			
Arthur W. Balcom . . .	$395 10		
Brock Bros.	43 93		
E. W. Clark	219 91		
Chas. A. Fallon	63 48		
S. D. Fallon	369 01		
T. W Good	990 70		
Greene & Co.	60 22		
Higgins & Co.	52 49		
D. J. Keefe & Co. . . .	373 16		
John J. Long	204 39		
Henry T. Moulton . . .	6 75		
Moynahan & Co.	51 93		
J. T. Phelan	8 42		
Pierce & Cox	238 00		
Herbert L. Rose . . .	24 16		
Thos. C. Sweeney & Co. . .	3 20		
W. H. Sweeney	328 07		
		3,432 92	
Resetting marble base and tiles: —			
Chas. E. Hall & Co. . . .		131 76	
Roof and gutter repairs: —			
John J. Blevins	$248 13		
C. Devine	501 80		
R. G. Nixon	81 89		
H. F. Peak	277 53		
M. J. Sheehan	25 18		
		1,134 53	
Stone-cutting: —			
Austin Ford & Son . . .	$43 20		
Wm. Hanlon	7 00		
		50 20	
Teaming, Jeremiah Sullivan . .		21 00	
Supplies: —			
Blackboards: —			
D. A. Doherty	$321 39		
Standard Blackboard Co. . .	5 00		
		326 39	
Amounts carried forward . .		$47,497 01	$50,000 00

Public Education — Continued.

SCHOOLS, GENERAL EXPENSES — Continued.

Amounts brought forward		$47,497 01	$50,000 00
For clocks and repairs: —			
A. J. Applegate Co.	$4 50		
Blodgett Clock Co.	34 96		
F. A Colburn	16 50		
E. J Dunphy	59 75		
Simon Flaig	16 25		
Wm. Humans	84 95		
Frank R. Kenney	1 00		
Vickery & Co.	10 00		
D. Zirngiebel, Jr.	41 05		
		268 96	
Dusters, brooms, brushes, etc.: —			
Boston Engineers' Supply Co	$244 70		
Brock Bros.	17 00		
E. T. Bynner	102 40		
Murphy, Leavens & Co.	4 50		
A J. Wilkinson & Co.	13 50		
G. H. Worcester Co.	30 00		
James H. Wyeth & Co.	8 00		
		420 10	
Flag-staff, Lexington Flag Staff Co.		45 00	
Furniture, furnishings and repairs: —			
J. Abrahams	$282 50		
American School Furniture Co.	170 25		
Boston Engineers' Supply Co.	220 05		
Brock Bros.	35 80		
Brock & Eaton	85		
Chandler Adjustable Chair and Desk Works	322 95		
Louis Cohen	102 45		
Derby Desk Co.	26 94		
Geo. F. Dickson	3 00		
Empire Rubber Manufacturing Co.	118 05		
James Grant & Co.	901 55		
G. H. Hogan	28 25		
A. McArthur Co.	15 00		
B. E. McDermott & Co.	6 30		
L. A. Stingel	2 20		
R. H. White Co.	20 00		
Worcester Bros.	238 85		
		2,494 99	
Hardware, tools and repairs, and supplies: —			
Boston Engineers' Supply Co.	$210 77		
Brock Bros.	108 10		
Brock & Eaton	81 23		
E. T. Bynner	114 82		
Cambridge Sign Co.	13 00		
Wm H. Claflin & Co.	17 00		
Crosby Steam Gage & Valve Co.	1 75		
Thos. J Daly	17 72		
M. T. Davidson	5 00		
W. J. Edwards	42 29		
Amounts carried forward	$611 68	$50,726 06	$50,000 00

Public Education — Continued.

SCHOOLS, GENERAL EXPENSES — Concluded.

Amounts brought forward	$611 68	$50,726 06	$50,000 00
For Elastic Tip Co.	11 25		
Electric Gas Lighting Co.	15 97		
Empire Rubber M'f'g Co.	6 82		
J J. Foley	7 90		
French, Mitchell, Woodbury Co.	9 00		
Jenkins Bros.	4 44		
J. D. Jewett Co.	25 90		
Geo. T. Johnson & Co.	13 00		
T. H Kneeland	2 50		
Lubron Manufacturing Co.	2 00		
E. McDermott & Co.	6 00		
Moynahan & Co.	11 00		
Geo. G. Page Box Co.	32 00		
Pill Bros.	1 00		
L A. Stingel	7 62		
A. J. Wilkinson & Co.	2 62		
James H. Wyeth & Co.	50 30		
Sundry persons	2 40		
		823 40	
Lumber, Wm. H. Wood & Co.		13 54	
Oil, Standard Oil Co.		12 60	
Sand and gravel, Jeremiah Sullivan		8 00	
Window jack: —			
C. W. H. Moulton & Co.		8 00	
Total		$51,591 60	

SUMMARY — EXPENDED.

For fuel	$20,988 99	
Lighting	2,623 49	
Repairs	23,271 83	
Supplies	4,420 98	
Miscellaneous	286 31	
Total		51,591 60
Excess of expenditures over appropriation		$1,591 60
Transfer to this account from Contingent Fund		1,600 00
Balance relinquished to General Treasury		$8 40

SCHOOLS. (6.1)

PERMANENT REPAIRS.

Appropriation			$6,000 00
EXPENDED.			
For carpentry: —			
Wm. H. Chaplin	$78 63		
W. Fillmore Co.	591 14		
Thos. Powers	49 46		
John Quin & Son	817 50		
		1,536 73	
Electric wiring, Otto Carlson		8 50	
Amounts carried forward		$1,545 23	$6,000 00

Public Education — Continued.

SCHOOLS, PERMANENT REPAIRS — Concluded.

Amounts brought forward . .		$1,545 23	$6,000 00
For heating and ventilating repairs: —			
Brock Bros.	$1,283 04		
Brock & Eaton	172 50		
Wm Fitzgerald & Co. . . .	64 60		
Greene & Co.	154 24		
Edw. Kendall & Sons . . .	219 75		
Roberts Iron Works Co. . .	54 68		
		1,948 81	
Mason work: —			
John Delaney	$312 76		
Joseph M. Dolan	59 00		
Thos Leahy & Son	102 00		
Frank J. O'Reilly	476 31		
Walsh Bros.	96 11		
		1,046 18	
Painting, varnishing, etc.: —			
W. J. Edwards	$330 00		
Harrington & Howell . . .	375 00		
M. L. Hurley & Co.	220 00		
J. Leo McDonald	61 65		
D. Mountain	93 03		
		1,079 68	
Plastering, Harrington & Howell .		91 85	
Plumbing, Troy Bros. & Co. . .		181 40	
Roof repairs, E. B. Badger & Sons Co.		106 00	
Total			5,999 15
Surplus of appropriation relinquished to General Treasury			85

SCHOOLS. (6.1)

ADDITION TO RINDGE MANUAL TRAINING SCHOOL.

Appropriation			$6,000 00
EXPENDED.			
For advertising and printing: —			
Cambridge Chronicle . . .		$12 13	
Contract for building: —			
John B. Byrne		5,027 00	
Building ducts and setting covers: —			
John B. Byrne		582 00	
Forges, pulleys and connections: —			
B. F. Sturtevant Co . . .		845 00	
Installing heating apparatus: —			
Greene & Co.		97 00	
Amounts carried forward . . .		$6,563 13	$6,000 00

Public Education — Continued.

ADDITION TO RINDGE MANUAL TRAINING SCHOOL — Concluded.

Amounts brought forward . .		$6,563 13	$6,000 00
For plans, Geo. T. Tilden . . .		251 35	
Services as watchmen: —			
Lester W Ladd	$18 00		
Wm. P. Purcell	112 50		
		130 50	
Slate cover for ducts: —			
Chas. E. Hall & Co. . . .		200 00	
Total			7,144 98
Excess of expenditures over appropriation			$1,144 98
Additional appropriation		$400 00	
Transfer to this account from Rifle Range . .		170 00	
Transfer to this account from Contingent Fund .		600 00	
			1,170 00
Balance relinquished to General Treasury . . .			$25 02

SCHOOLS. (6.1)

FLETCHER SCHOOL.

Appropriation			$48,974 65
EXPENDED.			
For advertising and printing: —			
Cambridge Chronicle . . .		$29 93	
Bricks, Parry Brick Co. . . .		74 75	
Cleaning, John J. Roach . . .		6 00	
Clocks: —			
Davis Bros.	$115 75		
Standard Electric Time Co. . .	200 00		
		315 75	
Contract for building: —			
J. E. Locatelli & Co. . . .		32,379 12	
Contract for heating and ventilating: —			
Huey Bros.		4,382 00	
Contract for plumbing, Huey Bros. .		3,802 50	
Furniture: —			
J. Abrahams	$2,267 00		
Chandler Adj. Chair and Desk Works	150 25		
Smith Bros.	559 00		
		2,976 25	
Electric door bells: —			
J. E. Locatelli & Co. . . .		26 50	
Electric wiring, Warren W. Scott. .		437 90	
Amounts carried forward . . .		$44,430 70	$48,974 65

Public Education — Continued.

FLETCHER SCHOOL — Concluded.

Amounts brought forward . .		$44,430 70	$48,974 65
For extra stone work on sills: —			
Wm. Hanlon		25 00	
Gong, Dyer & Co.		31 00	
Hardware: —			
Cambridge Sign Co. . . .	$13 50		
Chandler & Barber	398 35		
		411 85	
Labor, as per pay-rolls . . .		455 85	
Laying granolithic sidewalks: —			
Simpson Bros. Corporation . .		216 00	
Loam: —			
W. F. Bennett	$28 98		
David O'Mara	83 70		
M. O'Sullivan	90 54		
		203 22	
Making shelves, closets, etc.: —			
W. Fillmore Co.		203 89	
Placing bricks around water meter: —			
J. E. Locatelli & Co. . . .		12 50	
Plans: —			
George Fogerty	$25 00		
George Huey	149 50		
Harry Dustin Joll	688 18		
		862 68	
Repairing blackboards: —			
J. L. Hammett Co. . . .		60 00	
Revarnishing desks and fitting ink wells: —			
James Grant & Co. . . .		931 34	
Service pipe, Camb. Gas Light Co. .		4 20	
Service transfer: —			
Water supply, Water Dept. . .		4 40	
Shades, Shepard-Norwell Co. . .		158 36	
Slate work, Chas. E. Hall & Co. .		18 00	
Stone: —			
Cracked stone, Waltham Trap Rock Co.	$61 90		
Edgestone, S. & R. J. Lombard .	99 82		
Gutter stone, S. & R. J. Lombard .	60 90		
		222 62	
Supervision of building: —			
G. S. R. McLean		491 50	
Teaming, sundry persons . . .		182 44	
Use of steam roller, City of Somerville		20 00	
Watchman, Wm. J. Walsh . .		28 00	
Total			48,973 55
Surplus of appropriation relinquished to General Treasury			$1 10

Public Education — Continued.

SCHOOLS. (6.1)

HOUGHTON SCHOOL.

Appropriation		$80,000 00
EXPENDED.		
For advertising and printing: —		
Cambridge Chronicle	$36 75	
Examination of title: —		
Wm. V. Thompson	75 00	
Land, Fred H. Seavey	7,700 00	
Plans, Geo. F. Fogerty	500 00	
Total		8,311 75
Surplus of appropriation		$71,688 25
Additional appropriation		20,000 00
Balance relinquished to General Treasury		$91,688 25

SCHOOLS. (6.1)

KELLEY SCHOOL.

Appropriation			$984 47
EXPENDED.			
For advertising and printing: —			
Cambridge Chronicle		$3 55	
Drain work: —			
D. J. Keefe & Co.	$56 57		
Thos. Leahy & Son	95 37		
		151 94	
Electrical work, installing piping, etc.: —			
Thos. W. Byrne		297 50	
Fuel, Metropolitan Coal Co.		131 98	
Service pipe: —			
Cambridge Gas Light Co.		4 90	
Ventilating pipe: —			
Lynch & Woodward		200 00	
Total			789 87
Surplus of appropriation relinquished to General Treasury			$194 60

Public Education — Continued.

SCHOOLS. (6.1)

WASHINGTON SCHOOL.

Appropriation		$4,698 05
EXPENDED.		
For electrical work, F. Bryant & Co.	$279 50	
Heating and ventilating contract: — Lynch & Woodward	4,418 55	
Total		$4,698 05

SCHOOLS. (6.1)

CARE OF TRUANTS.

Appropriation		$1,800 00
EXPENDED.		
For board: — Middlesex County Truant School	$2,163 58	
Car tickets, Boston & Maine R. R.	20 85	
Total		2,184 43
Excess of expenditures over appropriation		$384 43
Transfer to this account from Contingent Fund		425 00
Balance relinquished to General Treasury		$40 57

SCHOOLS. (6.1)

FLAGS.

Appropriation		$150 00
EXPENDED.		
For flags and repairs: — Henry A. Wheeler & Co.	$105 60	
Total		105 60
Surplus of appropriation relinquished to General Treasury		$44 40

Public Education — Continued.

SCHOOLS. (6.1)

INCIDENTALS.

Appropriation			$1,600 00
	EXPENDED.		
For salaries of: —			
Secretary, S. B. Hubbard	$400 00		
Messenger, Wm. E. McAnaul	25 00		
		425 00	
Advertising, Cambridge Chronicle		1 80	
Books: —			
Adams, Cushing, & Foster	$13 30		
Silver, Burdett & Co.	7 48		
		20 78	
Car tickets: —			
Boston Elevated Railway Co.		300 00	
Carting pianos: —			
Henry F. Miller & Sons Piano Co.		18 00	
Copying: —			
Elizabeth McCrehan	$15 00		
Marietta Porter	15 00		
		30 00	
Expenses of Sanders Theatre: —			
Harvard University		20 40	
Making negatives and lantern slides: —			
Marshall & Fairchild		8 00	
Music, Oliver Ditson Co.		19 30	
Obtaining statistics, Lucian S. Cabot		6 00	
Postage: —			
Sanford B. Hubbard	$15 00		
F. M. Small	83 60		
		98 60	
Printing: —			
Cambridge Chronicle	$44 00		
Cambridge Tribune	6 00		
Caustic-Claflin Co.	65 00		
J. A. Cummings Printing Co.	268 92		
G. B. Lenfest	7 50		
Louis F. Weston	121 05		
		512 47	
Record book, Thos. Groom & Co.		7 00	
Services at graduation exercises: —			
A. K. Jones		3 00	
Taking census: —			
Frank B. Ingalls	$57 50		
Warren Ivers	42 50		
Amounts carried forward	$100 00	$1,470 35	$1,600 00

Public Education — Continued.

SCHOOLS, INCIDENTALS — Concluded.

Amounts brought forward . .	$100 00	$1,470 35	$1,600 00
For Felix C. McBride	47 50		
J. J. McCrehan	32 50		
Geo. H. Munroe	55 00		
Chas. F. Oxford	40 00		
Alexander J. Smith	18 75		
		293 75	
Telephone service		178 22	
			1,942 32
Excess of expenditures over appropriation . . .			$342 32
Transfer to this account from Contingent Fund . .			375 00
Balance relinquished to General Treasury . . .			$32 68

SCHOOLS. (6.1)

SALARIES OF TEACHERS AND OFFICERS.

Appropriation $365,000 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For education of children: —		
Hopkins Charity Fund .	$687 74	
State Board of Charity .	897 00	
Tuition of non-resident pupils	3,922 00	
Tuition of students of Harvard University .	1,520 00	
	$7,026 74	

EXPENDED.

For salaries of: —			
Superintendent, Francis Cogswell .		$3,500 00	
Agent, S. B. Hubbard . . .		2,100 00	
Clerks: —			
Althea B. Frost	$750 00		
Sadie E. Kimball	60 00		
Myrta E. Smith	640 00		
		1,450 00	
Special instructors: —			
Botany, Sarah E. Brassil . .	$1,000 00		
Drawing: —			
Lucia N Jennison . . .	800 00		
Peter Roos	1,930 00		
Gymnastics: —			
Sarah E Boudren . . .	870 00		
Bessie W. Howard . . .	765 00		
Amounts carried forward . . .	$5,365 00	$7,050 00	$365,000 00

Public Education — Continued.

SCHOOLS, SALARIES OF TEACHERS AND OFFICERS — Concluded.

Amounts brought forward	$5,365 00	$7,050 00	$365,000 00
For music: —			
Frederick E. Chapman	2,000 00		
Georgia E. Martin	815 00		
Sewing: —			
Nancy T. Dawe	600 00		
Agnes Gordon	700 00		
Alice H. Nay	600 00		
Primary Supervisor, Mary A. Lewis	1,230 00		
		11,310 00	
Salaries of teachers in: —			
Latin School	$26,275 50		
English High School	27,070 83		
Rindge Manual Training School	23,167 16		
Grammar Schools	131,448 91		
Primary Schools	89,637 88		
Kindergarten Schools	18,932 77		
Wellington Training School	14,976 34		
Substitutes	1,784 25		
		333,293 64	
Salaries of teachers in evening schools: —			
Drawing, free-hand	$432 00		
Drawing, mechanical	911 00		
High	1,577 50		
Putnam	2,127 50		
Roberts	1,979 00		
Shepard	870 50		
Webster	731 00		
		8,628 50	
Salaries of truant officers		4,000 00	
Porter, John H. Lemon		600 00	
Tuition, Town of Belmont		153 25	
			365,035 39
Excess of expenditures over appropriation			$35 39
Transfer to this account from Contingent Fund			250 00
Balance relinquished to General Treasury			$214 61

SCHOOLS. (6.1)

TRANSPORTATION OF PUPILS.

Appropriation			$325 00
EXPENDED.			
For conveying pupils, T. J. Shine		$321 00	
Total			321 00
Surplus of appropriation relinquished to General Treasury			$4 00

Public Education — Continued.

SCHOOLS. (6.1)

TEXT BOOKS AND SUPPLIES.

Appropriation $22,000 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For sale of, and damage to, books $633 14

EXPENDED.

For apparatus and supplies: —		
Adams, Cushing & Foster	$1,940 52	
American File Co.	11 22	
Barbour-Stockwell Co.	254 18	
Bausch & Lomb Optical Co.	2 67	
Selma E. Berthold	20 40	
Billings & Stover	2 20	
Blodgett, Ordway & Webber	24 86	
Milton Bradley Co.	78 81	
Brown, Durrell & Co.	110 86	
Brown-Wales Co.	187 72	
Burditt & Williams Co.	407 85	
Chandler & Barber	307 19	
Chandler & Farquhar Co.	16 38	
Cook-Vivian Co.	4,221 70	
Thos. J. Daly	8 63	
Davidson Rubber Co.	45 60	
Dexter Bros. Co.	156 74	
Diamond Paste Co.	51 10	
Dodge, Haley & Co.	185 68	
Eimer & Amend	330 83	
Fitz, Dana & Co.	52 31	
Frost & Adams Co.	96 99	
Geo. W. Gale Lumber Co.	1,087 90	
Thos Groom & Co.	12 50	
Arthur W. Hall Scientific Co.	29 48	
J. L Hammett Co.	23 42	
Arthur C. Harvey Co.	20 12	
J. A. Holmes & Co.	10 34	
Holtzer-Cabot Electrical Co.	84 00	
John A. Hubbard	15 95	
Sanford B. Hubbard	21 20	
J. S. F. Huddleston	6 50	
Wm. B. Hunt & Co.	2 55	
H. W. Johns-Manville Co.	4 90	
Jordan, Marsh Co.	34 57	
L E Knott Apparatus Co.	226 28	
Lord & Merrow	89 02	
Bunkio Matsuki	59 50	
Merrimac Chemical Co.	19 85	
Alexander Millan	5 30	
Neostyle Co.	35 00	
Amounts carried forward	$10,302 82	$22,000 00

Public Education — Continued.

SCHOOLS, TEXT BOOKS AND SUPPLIES — Continued.

Amounts brought forward	$10,302 82		$22,000 00
For Page Belting Co.	92 89		
Prang Educational Co.	44 00		
A. M. Robbins	9 10		
T. Robinson & Sons	4 00		
Scarborough Co.	3 00		
Emma A. Scudder	3 00		
B. F. Sturtevant Co.	13 55		
Chas. H. Thurston & Co.	59 51		
Wadsworth, Howland & Co.	367 36		
A. J. Wilkinson & Co.	45 18		
Sundry persons	6 36		
		10,950 77	
Books: —			
J. Q. Adams & Co.	$75 00		
Allyn & Bacon	129 89		
American Book Co.	4,151 67		
D. Appleton & Co.	20 00		
Atkinson, Mentzer & Grover	50 00		
Edw. E. Babb & Co.	456 27		
Henry G. Carey	35 00		
T. H. Castor & Co.	143 02		
DeWolfe, Fiske & Co.	192 56		
Oliver Ditson Co.	4 00		
Ginn & Co.	3,755 26		
Gregg Publishing Co.	144 80		
Wm. H. Guild & Co.	29 85		
D. C. Heath & Co.	451 80		
Hinds, Noble & Eldridge	64 60		
Houghton, Mifflin & Co.	461 30		
Lee & Shepard	1 25		
Massachusetts Bible Society	8 25		
G & C. Merriam Co.	83 30		
Benjamin H. Sanborn & Co.	899 90		
Silver, Burdett & Co.	247 01		
Thompson, Brown & Co.	3,069 10		
University Publishing Co.	69 63		
Wm. Ware & Co.	174 65		
		14,718 11	
Binding, James M. Sullivan		460 15	
Carpentry: —			
W. Fillmore Co.	$16 13		
W. H. Norris	67		
		16 80	
Car tickets: —			
Boston Elevated Railway Co.		25 00	
Directories, W. A. Greenough & Co.		7 00	
Engrossing, Boston Bank Note Co.		214 89	
Expressage and teaming: —			
American Express Co.	$2 50		
Bancroft's Express	7 80		
H. W. Bettinson & Co.	15 70		
Amounts carried forward	$26 00	$26,392 72	$22,000 00

Public Education — Continued.

SCHOOLS, TEXT BOOKS AND SUPPLIES — Concluded.

Amounts brought forward	$26 00	$26,392 72	$22,000 00
For P. Biggin	281 88		
W. A Nichols	71 05		
Sawin's Express	58 04		
Sundry persons	1 05		
		438 02	
Fuel: —			
Coleman Bros.	$40 50		
Metropolitan Coal Co.	54 00		
		94 50	
Grinding and filing tools: —			
Frank Creighton	$36 40		
Percy R. Stewart	5 10		
		41 50	
Labor on sloyd benches, N. P. Bain		20 20	
Pianos, tuning, and repairs: —			
Henry F. Miller & Sons	$658 50		
Briggs & Briggs	57 25		
Chickering & Sons	2 50		
John Quin & Son	2 50		
		720 75	
Postage, F. M. Small, Supt.		126 00	
Printing: —			
Caustic-Clafiin Co.	$28 50		
J. Frank Facey	83 75		
G. B. Lenfest	13 75		
Louis F. Weston	156 65		
		282 65	
Service transfer: —			
Wiring for motor, Electrical Dept.		6 30	
Sewing machines: —			
Singer Manufacturing Co.		100 00	
Stamps, Globe Stamp Works		5 55	
Typewriters: —			
Remington Typewriter Co.	$170 00		
Smith Premier Typewriter Co.	110 00		
		280 00	
Washing, Catherine Flynn		29 38	
Sundries		70	
Total			28,538 27
Excess of expenditures over appropriation			$6,538 27
Transfer to this account from Contingent Fund			6,550 00
Balance relinquished to General Treasury			$11 73

Public Education — Continued.

SCHOOLS. (6.1)

VACATION SCHOOLS.

Appropriation		$2,000 00
EXPENDED.		
For salaries of teachers and others	$1,836 67	
Apparatus and supplies: —		
Adams, Cushing & Foster	$6 99	
Billings & Stover	1 09	
Milton Bradley Co.	25 00	
Burditt & Wiliiams Co.	4 03	
Cook-Vivian Co.	6 76	
Geo. W. Gale Lumber Co.	43 87	
Lord & Merrow	23 33	
Alexander Millan	1 89	
Singer Manufacturing Co.	80	
	113 76	
Typewriting cooking recipes: —		
Miss G. Anderson	5 00	
Washing, Catherine Flynn	2 00	
Total		1,957 43
Surplus of appropriation relinquished to General Treasury		$42 57

LIBRARIES. (6.2)

MAIN LIBRARY, SALARIES.

Appropriation		$9,200 00
EXPENDED.		
For salaries of librarians: —		
Wm. L. Gifford	$500 00	
Clarence W. Ayer	1,333 34	
	$1,833 34	
Acting librarian, Etta L. Russell	200 00	
Assistants: —		
Etta L Russell	$800 00	
Winifred B. Smith	665 67	
Harriet D Lochman	661 92	
Charlotte E. Stewart	599 00	
Alfred E. Thayer	533 34	
L. Edna Brooks	504 17	
Ellen M. Hayes	365 09	
Katharine A. O'Donnell	401 84	
Alice O'Brien	260 00	
Sundry persons	935 14	
	5,726 17	
Amounts carried forward	$7,759 51	$9,200 00

Public Education — Continued.

MAIN LIBRARY, SALARIES — Concluded.

Amounts brought forward		$7,759 51	$9,200 00
For janitor, Thomas M. Thomas	$1,143 57		
Substitute, B. D. Hawkins	40 00		
		1,183 57	
Total			8,943 08
Surplus of appropriation			$256 92
Transfer from this account to General Expenses			250 00
Balance relinquished to General Treasury.			$6 92

GENERAL EXPENSES.

Appropriation $9,500 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For fines, catalogs, etc. . $616 29

EXPENDED.

For baskets, Hopkinson & Holden		$7 50	
Binding and binders: —			
Boston Bookbinding Co.	$44 20		
J. H. H. McNamee Co.	1,053 87		
		1,098 07	
Books, periodicals, etc.: —			
Amee Bros.	$235 33		
American Book Co.	65 88		
Edward E. Babb & Co.	16 68		
Balch Brothers Co.	28 20		
T. H. Castor & Co.	29 29		
W. B. Clarke & Co.	5 25		
Dodd, Mead & Co.	24 00		
Essex Institute	2 00		
Federal Book Co.	7 00		
Funk & Wagnalls	12 00		
Ginn & Co.	46 97		
Herman Goldberger	407 40		
E B. Hall & Co.	5 00		
D C. Heath & Co.	36 35		
Houghton, Mifflin & Co.	22 06		
Little, Brown & Co.	3,234 22		
Geo E. Littlefield	20 25		
Massachusetts Historical Society	3 00		
Moulton Publishing Co.	10 00		
National Educational Association	2 00		
Radcliffe Magazine	1 00		
Records of the Past Exploration Society	5 00		
Scientific American Club	96 00		
Amounts carried forward	$4,314 88	$1,105 57	$9,500 00

Public Education — Continued.

MAIN LIBRARY, GENERAL EXPENSES — Continued.

Amounts brought forward . .	$4,314 88	$1,105 57	$9,500 00
For University Press	10 00		
James T. White & Co. . . .	8 00		
H. W. Wilson Co	3 00		
		4,335 88	
Delivery of books: —			
Gilbert Davoren		509 00	
Directories: —			
W. A. Greenough & Co. . . .	$13 00		
Sampson, Murdock Co. . . .	12 00		
		25 00	
Electrical work and supplies: —			
Clark & Mills Electric Co. . .		1 55	
Expressage: —			
Sawin's Express . . .	$32 45		
American Express Co. . . .	5 10		
		37 55	
Fuel, Metropolitan Coal Co. . .		706 50	
Furniture, furnishings and repairs: —			
Clark & Mills Electrical Co. . .	$23 75		
Globe-Wernicke Co. . . .	62 96		
Library Bureau	29 60		
John T. Morris	6 50		
Daniel Pratt's Sons . . .	3 50		
John Quin & Son	51 00		
Worcester Bros.	79 47		
		256 78	
Hardware, tools and supplies: —			
Brock & Eaton	$38 84		
G W. Burditt	30 90		
Jordan Marsh Co.	2 40		
Parke Snow	3 50		
		75 64	
House repairs: —			
Carpentry, F. B. Furbish . .	$3 25		
Electrical work, F. Bryant & Co. .	3 85		
Inspecting boilers, S. C. Baxter .	4 00		
Roof repairs, John J. Blevins .	66 57		
Steam fitting, Greene & Co. . .	14 31		
		91 98	
Ice, Fresh Pond Ice Co. . . .		7 43	
Insurance, R. B. Walker . . .		432 00	
Ladder, C. W. H. Moulton & Co. .		10 50	
Lighting: —			
Cambridge Gas Light Co. . .	$366 00		
Cambridge Electric Light Co. .	420 59		
		786 59	
Local stations: —			
Marcellus I. Dow	$48 00		
Ezra C. Gove	48 00		
Jas. W. Hunnewell	60 00		
C. S. Lombard & Co. . . .	36 00		
Amounts carried forward . . .	$192 00	$8,381 97	$9,500 00

Public Education — Continued.

MAIN LIBRARY, GENERAL EXPENSES — Concluded.

Amounts brought forward	$192 00	$8,381 97	$9,500 00
For Albert E. Lynch	36 00		
Thos. K. Martin	36 00		
Wm. H. Murphy	36 00		
Chas. L Nelson	36 00		
Maurice O'Donnell & Co.	36 00		
Carrie Ellsworth Phillips	36 00		
St. Paul's Social Settlement	36 00		
P. A. Yerxa	36 00		
		480 00	
Membership fee: —			
American Dialect Society		1 00	
Stamps: —			
Estate of H. C. Dimond & Co.		5 43	
Stationery, printing, etc.: —			
Amee Bros.	$9 95		
American Writing Machine Co.	1 75		
Boston Bank Note Co.	10 50		
Caustic-Claflin Co.	22 45		
J. A. Cummings Printing Co.	17 62		
Dennison Manufacturing Co.	44		
Hammond Typewriter Co.	1 90		
Hooper, Lewis & Co.	40 86		
Library Bureau	16 03		
Librarian of Congress	25 00		
Monk & Bordley	269 25		
Monk, Bordley & Evans	124 00		
Edw. W. Wheeler	218 50		
Yawman & Erbe Manufacturing Co.	33 25		
		791 50	
Telephone service		66 25	
Typewriter repairs: —			
Hammond Typewriter Co.		4 78	
Washing, T. M. Thomas		16 92	
Total			9,747 85
Excess of expenditures over appropriation			$247 85
Transfer to this account from Libraries, Salaries			250 00
Balance relinquished to General Treasury			$2 15

LIBRARIES. (6.2)

EAST CAMBRIDGE BRANCH.

SALARIES.

Appropriation			$800 00
EXPENDED.			
For salary of: —			
Librarian, Mary Curtis		$566 64	
Amounts carried forward		$566 64	$800 00

Public Education — Continued.

EAST CAMBRIDGE BRANCH, SALARIES — Concluded.

Amounts brought forward . .		$566 64	$800 00
Janitor, J. J. McCarthy . . .	$183 00		
Substitute, John J. Sullivan . .	7 00		
		190 00	
Total			756 64
Surplus of appropriation			$43 36
Transfer from this account to General Expenses .			43 00
Balance relinquished to General Treasury . . .			36

GENERAL EXPENSES.

Appropriation			$1,000 00
EXPENDED.			
For admission fee and assessment: —			
Library Art Club		$10 00	
Binding and binders: —			
Boston Bookbinding Co. . .	$27 30		
J. H H. McNamee Co. . . .	83 65		
		110 95	
Books, periodicals, etc.: —			
Amee Bros.	$24 25		
American Book Co. . . .	21 60		
Edward E. Babb & Co. . . .	7 25		
Balch Brothers Co. . . .	2 20		
E J. Bowen	33 50		
Dodd, Mead & Co.	79 00		
Ginn & Co.	15 60		
Herman Goldberger . . .	89 82		
D. C. Heath & Co.	14 29		
Houghton, Mifflin & Co. . . .	16 37		
Little, Brown & Co. . . .	373 15		
		677 03	
Directory, W. A. Greenough & Co. .		3 50	
Furniture, furnishings and repairs: —			
Jas. Grant	$14 50		
C. Mahoney	1 35		
John Quin & Son	22 76		
		38 61	
Hardware and supplies, L. A. Stingel		18 19	
Lighting, Cambridge Gas Light Co. .		87 50	
Pictures, Bigelow & Jordan . .		84 37	
Repairing electric wires, C. Mahoney		2 55	
Stationery and printing: —			
Amee Bros.	$3 25		
Edward W. Wheeler . . .	6 50		
		9 75	
Total			$1,042 45
Excess of expenditures over appropriation . . .			$42 45
Transfer to this account from Salaries . . .			43 00
Balance relinquished to General Treasury . . .			55

Public Education — Concluded.

LIBRARIES. (6.2)

ADDITION.

Appropriation		$371 79
EXPENDED.		
For furniture and furnishings: —		
John H. Kelsey	$17 04	
Library Bureau	125 00	
John Quin & Son	224 75	
	$366 79	
Plans of switches: —		
Harry Dustin Joll	5 00	
Total		371 79

7. PUBLIC ART AND RECREATION.

PARKS. (7.2)

PARK DEPARTMENT, CONSTRUCTION AND LANDS.

Appropriation $25,000 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For rent . . . $2,137 60

EXPENDED.

GENERAL ACCOUNT.

For salary of General Supt. of Parks: —			
Jas. A. Montgomery . .		$1,500 00	
Carriage repairs, Stephen J. Moran .		125 25	
Carriage hire, Soden Street Stable .		8 00	
Car tickets, Boston Elevated Railway Co.		175 00	
Clasp envelopes, Dennison Manufacturing Co.		2 00	
Dinners, The Colonial Club . .		7 20	
Expressage, Dodge Express Co. .		15	
Harness and repairs, etc., Hugh McCaffrey		11 40	
Hardware, tools and repairs, and supplies: —			
E. T. Bynner . . .	$2 65		
Lufkin Rule Co. . .	5 91		
J. L Moseley Estate .	2 03		
Pill Bros. . . .	20 85		
		31 44	
Hay and grain, Robert Fawcett .		136 66	
Horseshoeing, Martin D Coyne's Shoeing Forge		56 50	
Loam, Jeremiah Sullivan . . .		44 59	
Lumber, Geo. W. Gale Lumber Co. .		5 57	
Pay rolls: —			
Laborers . . .	$176 00		
Engineers . . .	24 25		
		200 25	
Photo goods, Ralph Harris & Co. .		1 04	
Rent of stable and yard, Minnie G. del Castillo		270 00	
Repairing chairs, James Grant . .		45 00	
Stakes, John Quin & Son . . .		64 42	
Amounts carried forward . . .		$2,684 47	$25,000 00

Public Art and Recreation — Continued.

PARK DEPARTMENT, CONSTRUCTION AND LANDS — Continued.

Amounts brought forward . .	$2,684 47		$25,000 00
For stationery and printing: —			
Cambridge Chronicle . $14 50			
J. A. Cummings Printing Co. 106 42			
J. Frank Facey . . 3 00			
———	123 92		
Service transfer: —			
Water rates, Water Works Dept. .	11 50		
Use of horse and sleigh, Soden Street Stable.	45 00		
	———	2,864 89	
OFFICE.			
For salary of clerk, Grace E. Hixon . . $780 00			
Temporary clerk, Olive A. Hastings . . . 34 00			
———	814 00		
Atlas, Geo. H. Walker & Co. . .	25 00		
Directory, W. A. Greenough & Co. .	3 50		
Expressage: —			
Sawin's Express . . $1 00			
Savage & Son . . . 25			
———	1 25		
Stamp, Estate of H. C. Dimond & Co.	1 75		
Service transfer, Postage and Stationery Account	56 42		
Stationery, printing, etc.: —			
Cambridge Chronicle . $13 00			
Cotton & Gould . . 49 75			
J. Frank Facey . . 26 50			
———	89 25		
Telephone service	124 47		
Typewriter repairs, Smith Premier Typewriter Co.	10 00		
	———	1,125 64	
RINDGE FIELD.			
Bricks, N. E. Brick Co. . . .	$9 00		
Expressage, Dodge Express Co. .	75		
Hardware and tools: —			
E. T. Bynner . . . 20			
Jas. Maitland . . . 3 83			
———	4 03		
Loam, Jeremiah Sullivan . . .	400 96		
Amounts carried forward . . .	$414 74	$3,990 53	$25,000 00

Public Art and Recreation — Continued.

PARK DEPARTMENT, CONSTRUCTION AND LANDS — Continued.

Amounts brought forward . .		$414 74	$3,990 53	$25,000 00
For pay-rolls: —				
Laborers . . .	$1,290 09			
Engineers . . .	56 24			
		1,346 33		
Pipe and cement, D. W. Lewis . .		50 08		
Ring and grate, Barbour-Stockwell Co.		5 50		
Valve, Chapman Valve M'f'g Co. .		17 58		
			1,834 23	
THE NURSERY.				
Expressage, National Express Co. .		$1 10		
Fuel, Metropolitan Coal Co. . .		3 38		
Hardware and supplies: —				
E. T. Bynner . . .	$3 36			
P. R. Duffy . . .	3 75			
		7 11		
Pay-rolls, laborers		744 00		
Shrubs and trees: —				
Shady Hill Nursery Co. .	$140 13			
T. R. Watson . . .	12 50			
		152 63		
			908 22	
EAST CAMBRIDGE EMBANKMENT.				
Displacement of tide-water in the building of the esplanade: —				
Commonwealth of Massachusetts .		$400 00		
			400 00	
RIVER PARKWAY, SECTION A.				
Examination of title, Wm. V. Thompson		$15 00		
Pay-roll, engineer		11 00		
			26 00	
SECTION B.				
Advertising, Cambridge Chronicle .		58		
Bolts and plates: —				
Boston Bolt Co. . .	$10 75			
A. S. Morss Co. . .	4 29			
		15 04		
Building float, John C. McGirr . .		215 00		
Hardware, tools and supplies: —				
E. T. Bynner . . .	50			
James Maitland . .	60			
Amounts carried forward .	$1 10	$230 62	$7,158 98	$25,000 00

Public Art and Recreation — Continued.

PARK DEPARTMENT, CONSTRUCTION AND LANDS — Continued.

Amounts brought forward	$1 10	$230 62	$7,158 98	$25,000 00
For Pill Bros.	16 81			
Chas. Van Buskirk	5 50			
		23 41		
Iron work on wall and float, etc., Chelmsford Foundry Co.		160 60		
Pay-rolls: —				
Laborers	$1,656 10			
Engineers	112 87			
		1,768 97		
Pine logs, John C. McGirr		196 00		
Recording license and plan, Edwin O. Childs, Register		1 67		
Use of man and horses on watering carts, C. J. Sullivan		340 00		
			2,721 27	
SECTION C.				
Advertising and printing, Cambridge Chronicle		$11 60		
Filling, sundry persons		706 74		
Gravel, Wm. B. Mullen		1,502 97		
Pay-rolls: —				
Laborers	$981 75			
Engineers	413 76			
		1,395 51		
Teaming, David O'Mara		10 00		
			3,626 82	
SECTION D.				
Filling, sundry persons		$2,308 65		
Hardware, E. T. Bynner		11 40		
Lumber and mill work: —				
H. A. Scranton	$23 75			
Wm. H. Wood & Co.	89 73			
		113 48		
Pay-rolls: —				
Laborers	$994 90			
Engineers	497 13			
		1,492 03		
Rehandling material, Bay State Dredging Co.		300 00		
Service transfers: —				
Street Dept., Watering Parkway	$190 40			
Sewer Dept., Filling	19 75			
Water Dept., Off and On	1 00			
		211 15		
			4,436 71	
Amounts carried forward			$17,943 78	$25,000 00

Public Art and Recreation — Continued.

PARK DEPARTMENT, CONSTRUCTION AND LANDS — Concluded.

Amounts brought forward . .		$17,943 78	$25,000 00

SECTION F.

For filling, sundry persons . . .	$2,981 04		
Pay-rolls: —			
Laborers . .	$2,987 30		
Engineers	420 75		
	3,408 05		
Service transfer: —			
Repairing garden hydrants, Water Department	8 51		
Stakes, John Quin & Son . . .	10 25		
Teaming	14 50		
		6,422 35	

SECTION G.

Land and damage, Ellen M. Dinsmore	$1,200 00		
Search of estate, William V. Thompson	10 00		
		1,210 00	
Total			25,576 13
Excess of expenditures over appropriation . . .			$576 13
Additional appropriation			6,000 00
Balance relinquished to General Treasury . . .			$5,423 87

PARK DEPARTMENT, MAINTENANCE.

BROWN-TAIL MOTH EXTERMINATION.

Appropriation			$3,700 00

EXPENDED.

For bicycle repairs, E. H. McDuffee .		$2 00	
Creosote, Samuel Cabot . . .		55 75	
Carpentry, W. H Norris . . .		21 30	
Disparene, Bowker Insecticide Co. .		12 25	
Expressage: —			
American Express Co. . . .	$2 10		
Coolidge's Express	25		
Savage & Son	25		
Sawin's Express	45		
		3 05	
Amounts carried forward . . .		$94 35	$3,700 00

Public Art and Recreation — Continued.

PARK DEPARTMENT, MAINTENANCE, BROWN-TAIL MOTH EXTERMINATION — Concluded.

Amounts brought forward . .		$94 35	$3,700 00
For hardware, tools and repairs, and supplies: —			
Joseph Breck & Sons . . .	$4 00		
E. T. Bynner	45 36		
J. A. Holmes & Co. . . .	1 50		
Pill Bros.	57		
		51 43	
Ladders, C. W. H. Moulton & Co. .		105 30	
Pay-rolls, laborers		6,279 99	
Printing, J. Frank Facey . . .		33 00	
Spray pump, Bowker Insecticide Co.		65 00	
Use of horse and carriage: —			
Soden Street Stable . . .		70 50	
Total			6,699 57
Excess of expenditures over appropriation . . .			$2,999 57
Transfer to this account from Contingent Fund . .			3,000 00
Balance relinquished to General Treasury . . .			43

PARK DEPARTMENT, MAINTENANCE.

CAMBRIDGE FIELD AND SHELTER.

Appropriation	$6,000 00

EXPENDED.

CAMBRIDGE FIELD.

For lime, Geo. W. Gale Lumber Co. .	$1 10		
Lighting, Camb. Electric Light Co.	693 27		
Loam, sundry persons . . .	48 07		
Lumber, Geo. W. Gale Lumber Co.	7 07		
Netting, Morss & Whyte . . .	8 40		
Pay-rolls, laborers	2,214 03		
Rolling grounds, The Barber Asphalt Paving Co.	43 50		
Repairing drinking fountain, T. W. Good	3 45		
Rings and staples, E. T. Bynner .	18		
Stakes, John Quin & Son . . .	64 50		
Teaming, sundry persons . . .	67 50		
		$3,151 07	
Amounts carried forward . . .		$3,151 07	$6,000 00

Public Art and Recreation — Continued.

PARK DEPARTMENT, MAINTENANCE, CAMBRIDGE FIELD AND SHELTER — Concluded.

Amounts brought forward . .		$3,151 07	$6,000 00

SHELTER.

For salaries of: —			
Supt John Good . .	$936 00		
Matron, Ellen Reardon .	520 00		
	1,456 00		
Expressage, sundry persons . .	60		
Fuel, Metropolitan Coal Co. . .	303 75		
Hardware, tools and supplies: —			
P. J. Carmichael . .	30		
Wm. H. Claflin & Co. .	18 00		
Pill Bros. . . .	14 45		
	32 75		
Laundering towels, E. & R Laundry	10 10		
Laying new floor, Doyle Bros. . .	100 00		
Lighting, Camb. Electric Light Co. .	34 29		
Plumbing, T W. Good . . .	299 88		
Towels, J. H. Corcoran & Co. . .	5 40		
Service transfer: —			
Electrical work, Electrical Dept., Wires	5 30		
		2,248 07	
Total			5,399 14
Surplus of appropriation			$600 86
Transfer from this account to Police Dept. . . .			600 00
Balance relinquished to General Treasury . . .			86

PARK DEPARTMENT, MAINTENANCE.

GENERAL ACCOUNT.

Appropriation	$600 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For brown-tail moth .	$1,471 00
Labor	59 14
	$1,530 14

EXPENDED.

For advertising, Cambridge Chronicle	60	
Badges, Jos. A. Williams . . .	25 00	
Decorating monument: —		
N. E. Decorating Co. . . .	20 00	
Amounts carried forward . . .	$45 60	$600 00

Public Art and Recreation — Continued.

PARK DEPARTMENT, MAINTENANCE, GENERAL ACCOUNT — Concluded.

Amounts brought forward . .		$45 60	$600 00
For expressage, Sawin's Express . .		25	
Fuel, Metropolitan Coal Co. . .		27 00	
Hardware, tools and supplies: —			
Boston Broom Co.	$5 50		
E. T. Bynner	15 80		
Dodge, Haley & Co. . . .	7 12		
J. A Holmes & Co. . . .	5 00		
Pill Bros.	11 82		
		45 24	
Harness repairs, Hugh McCaffrey .		15 05	
Hay and grain, Robert Fawcett .		136 79	
Horseshoeing: —			
M. D. Coyne's Shoeing Forge .		2 50	
Lighting: —			
Cambridge Electric Light Co. .		10 74	
Printing, Cambridge Chronicle . .		8 50	
Rent of stable and yard: —			
Minnie G. del Castillo . . .		270 00	
Rubber boots, G. A. Isenberg . .		3 00	
Service transfers: —			
Street Dept., Horseshoeing . .	13 92		
Repairing cart	1 78		
		15 70	
Slats for settees: —			
C. W. H. Moulton & Co. . .		19 62	
Total			599 99
Surplus of appropriation relinquished to General Treasury			01

PARK DEPARTMENT, MAINTENANCE.

COMMONS, SQUARES AND PUBLIC GROUNDS.

Appropriation		$5,000 00
EXPENDED.		
For expressage, Danehy's Express .	50	
Grass seeds, Pill Bros. . . .	27 00	
Amounts carried forward . . .	$27 50	$5,000 00

Public Art and Recreation — Continued.

PARK DEPARTMENT, MAINTENANCE, COMMONS, SQUARES AND PUBLIC GROUNDS — Concluded.

Amounts brought forward . .		$27 50	$5,000 00
For hardware, tools and supplies: —			
Jos. Breck & Sons	$7 56		
E. T. Bynner	22 22		
Pill Bros.	9 00		
		38 78	
Lighting: —			
Cambridge Electric Light Co. .		357 00	
Plants, bulbs, etc.: —			
Estate of Wilhelmina A. Bock .	$98 00		
R. and J. Farquhar & Co. . .	51 85		
		149 85	
Pay-rolls, laborers		4,154 27	
Posts, Morss & Whyte . . .		20 00	
Rolling grounds: —			
The Barber Asphalt Paving Co. .		7 25	
Repairing fence: —			
Chelmsford Foundry Co. . .		2 00	
Service transfer: —			
Water Department, Off and On .		1 00	
Stakes, John Quin & Son . . .		60 00	
Teaming, sundry persons . . .		53 75	
Work on poles: —			
Boston Flag Pole Co.		128 50	
Total			4,999 90
Surplus of appropriation relinquished to General Treasury			10

PARK DEPARTMENT, MAINTENANCE.

SHADE TREES.

Appropriation			$5,000 00
EXPENDED.			
For bicycle repairs, E. H. McDuffee .		$7 50	
Filling, sundry persons . . .		26 43	
Hardware, tools and repairs, and supplies: —			
E. T. Bynner	$29 71		
J. A. Holmes & Co	1 20		
Amounts carried forward . . .	$30 91	$33 93	$5,000 00

Public Art and Recreation — Continued.

PARK DEPARTMENT, MAINTENANCE, SHADE TREES — Concluded.

Amounts brought forward	$30 91	$33 93	$5,000 00
For Pill Bros.	2 25		
Daniel J. Sullivan	17 00		
		50 16	
Horse, Fay Bros.		11 00	
Loam, David O'Mara		42 66	
Lumber, F. C. Ayer		25 24	
Pay-rolls: —			
Laborers	$4,347 90		
Engineers	57 75		
		4,405 65	
Professional services: —			
Chas. S. Cahill, M. D.		2 00	
Printing, J. Frank Facey		10 00	
Service transfers: —			
Street Dept, Gravel and bricks	$1 65		
Repairing wagon	1 05		
		2 70	
Teaming, sundry persons		88 76	
Tree poles, C. W. H. Moulton & Co.		115 60	
Trees, Shady Hill Nursery Co.		170 00	
Use of horse and wagon: —			
Soden St stable		42 00	
Total			4,999 70
Surplus of appropriation relinquished to General Treasury			30

PARK DEPARTMENT, MAINTENANCE.

SECTIONS A, B, D, F AND RINDGE FIELD.

Appropriation			$3,200 00
EXPENDED.			
RINDGE FIELD.			
For hardware, tools, and supplies: —			
E. T. Bynner	$5 75		
John T. Hourihan	60 14		
		$65 89	
Lighting: —			
Cambridge Electric Light Co.	$198 03		
Welsbach Street Lighting Co.	63 07		
		261 10	
Amounts carried forward		$326 99	$3,200 00

Public Art and Recreation — Continued.

PARK DEPARTMENT, MAINTENANCE, SECTIONS A, B, D, F AND RINDGE FIELD — Concluded.

Amounts brought forward . .	$326 99		$3,200 00
For pay-rolls: —			
Laborers . . .	$294 55		
Engineers . . .	5 50		
	300 05		
Rolling ground, The Barber Asphalt Paving Co.	7 25		
Set of bases. Wright & Ditson . .	5 40		
Service transfer, Water Department	2 11		
		$641 80	
SECTION A.			
Lighting, Welsbach Street Lighting Co.	$220 75		
SECTION B.			
Lighting, Welsbach Street Lighting Co.	$805 18		
SECTION D.			
Lighting, Welsbach Street Lighting Co.	$722 37		
SECTION F.			
Lighting, Welsbach Street Lighting Co.	$309 61		
		2,057 91	
Total			2,699 71
Surplus of appropriation			$500 29
Transfer from this account to Police Department .			500 00
Balance relinquished to General Treasury . . .			29

PARK DEPARTMENT, MAINTENANCE.

SECTIONS G AND H.

Appropriation			$3,300 00
EXPENDED.			
For hose, James H. O'Brien . . .		$24 00	
Lawn mower, Joseph Breck & Sons, Corp.		30 78	
Lighting, Welsbach Street Lighting Co.		808 33	
Amounts carried forward . . .		$863 11	$3,300 00

Public Art and Recreation — Continued.

PARK DEPARTMENT, MAINTENANCE, SECTIONS G AND H — Concluded.

Amounts brought forward	$863 11	$3,300 00
For pay-rolls, laborers	2,390 77	
Supplies, E. T. Bynner	17 09	
Teaming, sundry persons	25 13	
Use of horse and wagon, Soden Street Stable	2 00	
Total		3,298 10
Surplus of appropriation relinquished to General Treasury		$1 90

BATHS. (7.3)

PARK DEPARTMENT.

Appropriation	$2,200 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For use of suits, towels, etc.	$1,461 15

EXPENDED.

For salaries of: —			
Bath-house keepers: —			
A. W. Barnes	$147 43		
Joseph Boyle	24 00		
A. M. Donahue	154 28		
Joseph James	192 86		
Naz Kyan	114 86		
		$633 43	
Life guards: —			
Jas. E. Craven	$147 43		
John F. Cummings	151 71		
		299 14	
Matron, Jennie Craig	$130 00		
Assistant matron, Nellie E. Sullivan	130 00		
		260 00	
Laundress, Catherine Freeman		87 85	
Laborers, as per pay-rolls		46 00	
Bathing suits, J. J. Connor		63 00	
Disinfectant, A. M. Winchester		27 10	
Dry goods and supplies: —			
J. H. Corcoran & Co.	$10 33		
Emerson Bros.	24 44		
Jordan, Marsh Co.	9 00		
		43 77	
Amounts carried forward		$1,460 29	$2,200 00

Public Art and Recreation — Continued.

BATHS, PARK DEPARTMENT — Concluded.

Amounts brought forward . .		$1,460 29	$2,200 00
For hardware, tools and repairs, and supplies: —			
E. T. Bynner	$21 91		
P. J. Carmichael	72		
L. W. Ferdinand & Co. . . .	5 34		
J. A. Holmes & Co. . . .	1 80		
Geo. B. Lothrop & Co. . . .	1 25		
James Maitland	5 00		
Pill Bros.	4 89		
		40 91	
Hose, Boston Engineers' Supply Co.		30 00	
Laundering, Monk's Custom Laundry		115 57	
Making flag, Mrs. Jennie Craig .		5 00	
Printing, J. Frank Facey . . .		17 00	
Professional services: —			
H. M. Gardner, M. D. . . .	$15 00		
W. L. Hayes, M. D. . . .	5 00		
		20 00	
Repairing boat, W. H. Norris . .		69	
Telephone service		6 84	
Total			1,696 30
Surplus of appropriation			$503 70
Transfer from this account to Police Dept. . .			500 00
Balance relinquished to General Treasury . . .			$3 70

CELEBRATIONS. (7.4)

FOURTH OF JULY.

Appropriation			$1,500 00
EXPENDED.			
For badges, Whitehead & Hoag Co. .		$9 50	
Baseballs, Wright & Ditson . .		10 00	
Bandstands, F. B. Furbish . .		45 00	
Expressage, Coolidge's Express .		2 00	
Fireworks: —			
W. A. Luce	$400 00		
H H. Tilton & Co. . . .	240 00		
Masten & Wells Fireworks Manufacturing Co.	250 00		
		890 00	
Games: —			
Huron Base Ball Club . . .	$25 00		
Timothy J Lane	50 00		
Manhattan Baseball Club . .	25 00		
Benjamin Osthues	30 00		
Amounts carried forward . . .		$956 50	$1,500 00

Public Art and Recreation — Continued.

CELEBRATIONS, FOURTH OF JULY — Concluded.

Amounts brought forward		$956 50	$1,500 00
For Thos. F. Riley	30 00		
St. John's Literary Institute	25 00		
		185 00	
Glazing, Pill Bros.		2 00	
Labor, sundry persons		30 17	
Lighting: —			
Cambridge Electric Light Co.		20 00	
Music: —			
Cambridge Cadet Band	$66 00		
Cambridge City Band	65 00		
Monument National Band	75 00		
		206 00	
Printing, J. Frank Facey		7 79	
Refreshments, M. R. Jones		32 00	
Ringing bells, sundry persons		39 00	
Services at games: —			
Thos. J Conrick	$5 00		
Wm. H. Copithorne	5 00		
Wm. Long	5 00		
Frank McGrath	18 90		
N. E. Association of the Amateur Athletic Union	10 00		
		43 90	
Stakes, John Quin & Son		9 25	
Sundry supplies: —			
E. T. Bynner	16		
J. H. Corcoran & Co	44		
		60	
Use of chairs, John Cashman		19 75	
Use of horse and wagon, Soden Street Stable		5 00	
Use of rope, Nolan Bros		14 44	
Watches, E. J. Dunphy		121 00	
Total			1,692 40
Excess of expenditures over appropriation			$192 40
Additional appropriation			200 00
Balance relinquished to General Treasury			$7 60

CELEBRATIONS. (7.4)

MEMORIAL DAY.

Appropriation			$1,100 00
EXPENDED.			
For Memorial Day Celebration: —			
Chas. Beck Post 56, G. A. R.		$250 00	
John A Logan Post 186, G. A. R.		250 00	
Amounts carried forward		$500 00	$1,100 00

Public Art and Recreation — Concluded.

CELEBRATIONS, MEMORIAL DAY — Concluded.

Amounts brought forward . .	$500 00	$1,100 00
For Wm. H. Smart Post 30, G. A. R. .	250 00	
P. Stearns Davis Post 57, G. A. R.	250 00	
Leslie F. Hunting Camp, No. 12 .	100 00	
Total		$1,100 00

CELEBRATIONS. (7.4)

LABOR DAY.

Appropriation	$400 00

EXPENDED.

For music: —		
Cambridge City Band . . .	$100 00	
Thos. F. Moran	260 00	
C. N. Phelps	40 00	
		$400 00

9. PUBLIC INTEREST.

Appropriation	$230,604 00

DEPARTMENT RECEIPTS. CARRIED TO GENERAL TREASURY.

For interest on bank deposits (9.1)	$3,727 80
Interest on sewer assessments (9.2) .	15 85
Interest on sidewalk assessments (9 2) .	76 67
Interest on overdue taxes (9.2)	10,854 52
Interest on betterments (9.2)	10 25
Accrued interest (9.4) .	1,119 36
	$15,804 45

EXPENDED.

For payment of interest upon debt (9.3) :—			
Temporary tax loans . . .	$8,548 37		
Funded debt	167,736 50		
Park loans	52,610 00		
		$228,894 87	
Payment of interest on trust funds (9 4) :—			
Daniel White Charity . . .	$300 00		
Dowse Institute Fund . . .	600 00		
Sanders' Temperance Fund . .	600 00		
		1,500 00	
Total			230,394 87
Surplus of appropriation relinquished to General Treasury			$209 13

INTEREST ON WATER LOAN.

Appropriation	$134,206 50

EXPENDED.

For interest upon water loans . .	$126,126 50	
Total		126,126 50
Surplus of appropriation relinquished to General Treasury		$8,080 00

10. TAXATION.

ABATEMENTS.

EXPENDED.

Taxes of 1904.		
Real Estate	$19,847 58	
Personal Estate	8,433 97	
Poll	152 00	
Watering	36 72	
		$28,470 27
Taxes of 1903.		
Real Estate	$12,616 08	
Personal Estate	4,176 37	
Poll	202 00	
Watering	11 10	
		17,005 55
Taxes of 1902.		
Real Estate	$84 61	
Personal Estate	575 12	
Poll	68 00	
		727 73
Taxes of 1901.		
Real Estate	$5 00	
Personal Estate	437 37	
Poll	16 00	
		458 37
Taxes of 1900.		
Personal	$72 67	
Poll	20 00	
		92 67
Taxes of 1899.		
Personal Estate	$8 55	
Poll	8 00	
		16 55
In accordance with decree of County Commissioners: —		
Alfred Bowditch et al., Trs. of A. D. Club	$132 53	
Cambridge Savings Bank	419 00	
Heirs of Charles C. Little	167 42	
George C. Little	191 25	
John Albro Little	1,449 05	
Edward M. Parker et al., Trs. of University Associates	1,005 90	
		3,365 15
Amount carried forward		$50,136 29

Taxation — Concluded.

ABATEMENTS — Concluded.

Amount brought forward . .		$50,136 29	
Excess of taxes: —			
Dev. of Horace O. Bright . .	$585 65		
Benj. F. Brown	128 12		
Cambridgeport Savings Bank . .	419 64		
Geo. B. Crocker et al. . . .	2,190 79		
Edw. Kendall et al.	504 66		
Geo. B. Roberts	227 14		
Heirs of Benj. Tilton . . .	243 56		
Wm. H. Wood	822 25		
		5,121 81	
Release of tax titles: —			
Geo. A. Richards	$82 44		
Harlow H. Rogers . .	22 91		
Levi Perkins Estate	5 09		
		110 44	
Total			$55,368 54

SCHEDULE B–I

Consolidated Balance Sheet. November 30, 1904.

ASSETS.		LIABILITIES.	
Current Assets (B–II.)	$618,662 96	Current Liabilities (B–II.)	$3,902 17
Contingent Assets (B–III.)	194,696 70	Contingent Liabilities (B–III.)	74,352 93
Trust Funds and Special Deposits (B–IV.)	87,714 10	Trust Liabilities (B–IV.)	87,714 10
Sinking Funds (B–V.)	2,092,030 34	Bonded Debt (B–V.)	9,231,000 00
Total Available Assets	$2,993,104 10	Total Liabilities	$9,396,969 20
Fixed Assets (Unavailable. B–VI.)	11,208,211 81	General Deficit and Surplus Account (B–VII.)	4,804,346 71
Grand Total of Assets	$14,201,315 91	Grand Total of Liabilities and Surplus	$14,201,315 91

SCHEDULE B–II.

CURRENT ASSETS.

CASH:		
Cash in the Treasury available for general purposes		*$161,946 26
Cash in the Treasury available for special assessments (*included above.*)		
GOOD ACCOUNTS RECEIVABLE:		
Delinquent Property Taxes	$428,753 91	
Other good accounts:		
Sewer Assessments	5,568 64	
Sidewalk Assessments	6,793 83	
Street Watering Assessments	4,358 56	
Miscellaneous Bills	11,241 76	
Total Good Accounts Receivable		456,716 70
Total Current Assets		$618,662 96

CURRENT LIABILITIES.

(Floating Debts.)

1. OUTSTANDING ACCOUNTS DUE AND UNPAID:		
Of the current year		
Land Damages	$3,441 10	
Of previous years		
Tax Sale Surplus	461 07	
2. OUTSTANDING ACCOUNTS NOT DUE:		
Temporary Tax Loans Unpaid		
Other Accounts		
Total Current Liabilities		3,902 17
Surplus of Current Assets (B–VII.)		$614,760 79

*The Treasurer's actual cash is $25,000 greater, as it includes $25,000 which has here been treated as cash in three trust funds. (See Schedule B–IV.) The actual cash balance of $186,946.26 has been shown on Schedule A–I, distributed to various funds and accounts.

SCHEDULE B–III.

CONTINGENT ASSETS.

DOUBTFUL ACCOUNTS RECEIVABLE:

Delinquent Personal Property and Poll Taxes, viz:

1897	$26,878 92	
1898	27,157 44	
1899	21,866 97	
1900	23,141 79	
1901	22,138 76	
1902	24,991 54	
1903	33,526 00	
		$179,701 42

Other doubtful accounts, viz:

Betterments	$3,753 52	
Miscellaneous Bills	11,241 76	
		14,995 28
Total Contingent Assets		$194,696 70

CONTINGENT LIABILITIES.

RETENTION FUND ACCOUNT:

Percentage of Contractors' payments retained, viz:

John B. Byrne	$1,882 85	
Holbrook, Cabot & Rollins	1,850 12	
Laskey, Whitten & Jackson	218 50	
Phoenix Bridge Co.	44,490 41	
Walsh Bros.	5,088 00	
Gustavus Wilson	125 00	

OTHER CONTINGENT LIABILITIES, viz:

Arthur Balcom	378 43	
Goodwin & Wester Co	194 60	
Simpson Bros. Corp.	125 02	
John F. O'Brien	20,000 00	
Total Contingent Liabilities		74,352 93
Surplus of Contingent Assets (B–VII.)		$120,343 77

SCHEDULE B–IV.

TRUST FUNDS ASSETS.

CASH IN TRUST FUNDS:		
Firemen's Pension Fund		
Police Pension Fund		
Special Deposits, etc., viz.:		
Cemetery Fund	$814 10	
Daniel White Charity Fund	*5,000 00	
Dowse Institute Fund	*10,000 00	
Sanders Temperance Fund	*10,000 00	
Total Cash in Trust Funds		$25,814 10
INVESTMENTS OF TRUST FUNDS:		
Stocks and Bonds in Various Funds, viz:		
Cemetery Fund	$61,900 00	
Total Investments in Trust Funds		61,900 00
Total Assets in Trust Funds		$87,714 10

LIABILITIES.

Firemen's Pension Fund Account		
Police Pension Fund Account		
Other Trust Funds and Special Funds, viz.:		
Daniel White Charity Fund	$5,000 00	
Dowse Institute Fund	10,000 00	
Sanders Temperance Fund	10,000 00	
Cemetery Fund Account	62,714 10	
Total Liabilities		$87,714 10

* For the purposes of this schedule these amounts have been deducted from the Treasurer's general cash (B-II.) and set up here as assets.

In addition to the above items there is a fund from a bequest by Levi Bridge of which the Mayor, President of the Board of Aldermen and President of the Common Council are Trustees.

SCHEDULE B–v.

SINKING FUNDS ASSETS.

CASH IN ALL SINKING FUNDS..... ...		$60,430 34
INVESTMENTS OF SINKING FUNDS:		
Bonds and Other Securities, viz.:		
(Per list in report of Sinking Funds Commissioners).....	$2,031,600 00	
		2,031,600 00
Total Assets in Sinking Funds.....		$2,092,030 34

BONDED DEBTS OF THE CITY.

1. GENERAL BONDS:		
a. For General Municipal Purposes.		
*Funded City Debt.....	$5,880,400 00	
b. For Public Industries.		
†Water Works.....	3,350,600 00	
2. SPECIAL ASSESSMENT BONDS: ‡		
Total of Bonded Debts.....		9,231,000 00
Excess of Debts (Net Bonded Debt. See B–vii.).....		$7,138,969 66

* Schedule in detail will be found on pages 343 to 346, inclusive, of the Auditor's Report.

† Schedule in detail will be found on page 346 of the Auditor's Report.

‡ Included in 1-a above.

SCHEDULE B–VI.

FIXED ASSETS.

LAND, BUILDINGS, AND EQUIPMENT.

City Buildings:		
Land	$104,300 00	
Buildings	338,100 00	
Equipment	39,646 00	
		$482,046 00
Police Department:		
Equipment		17,128 00
Fire Department:		
Land	$43,800 00	
Buildings	158,500 00	
Equipment	76,600 00	
		278,900 00
Fire and Police Telegraph, Equipment		40,035 00
Health Department:		
Land	$10,100 00	
Buildings	6,000 00	
Equipment	4,737 74	
		20,837 74
Inspection of Milk and Vinegar, Equipment		625 50
Cemeteries:		
Land	$60,000 00	
Buildings	2,500 00	
Equipment	2,657 72	
		65,157 72
Sealer of Weights and Measures, Equipment		1,854 25
Armories:		
Land	$25,000 00	
Buildings	150,000 00	
Equipment	5,000 00	
		180,000 00
City Home:		
Land	$53,500 00	
Buildings	28,200 00	
Equipment	22,315 00	
		104,015 00
Street Department (Stables, etc.):		
Land	$76,000 00	
Buildings	60,000 00	
Equipment	62,353 33	
		198,353 33

SCHEDULE B–VI. — *Continued.*

Sewer Department (Stables, etc.):		
Land	$5,900 00	
Buildings	4,100 00	
Equipment	10,441 00	
		20,441 00
Street Lighting Equipment		3,920 00
Bridge Department:		
Buildings	$2,137 50	
Equipment	259 07	
		2,396 57
Water Works:		
Land, Dams, etc.	$1,325,510 31	
Buildings	101,810 40	
Equipment	1,677,943 73	
		3,105,264 44
Schools:		
Land	$382,160 00	
Buildings	1,574,900 00	
Equipment	157,514 97	
		2,114,574 97
Library:		
Land	$85,000 00	
Buildings	145,000 00	
Equipment	77,800 00	
		307,800 00
Parks:		
Land	$4,199,012 29	
Buildings	63,000 00	
Equipment	2,850 00	
		4,264,862 29
Total Fixed Assets. (See B-VII.)		$11,208,211 81

SCHEDULE B–VII.

GENERAL DEFICIT AND SURPLUS ACCOUNT.

DEFICITS.

*Deficit of Current Assets (B–II.), if any		
†Deficit of Contingent Assets (B–III.), if any		
†Deficit of Trust Funds Assets (B–IV.), if any		
†Deficit of Sinking Funds Assets (B–V.), viz:		
Net Bonded Debt		$7,138,969 66
Total of all Deficits		$7,138,969 66

SURPLUS.

*Surplus of Current Assets (B–II.), if any	$614,760 79	
†Surplus of Contingent Assets (B–III.), if any	120,343 77	
†Surplus of Trust Funds (B–IV.), if any		
†Surplus of Sinking Funds (B–V.), if any		
Total Surplus, excluding Fixed Assets‡		735,104 56
Excess of Deficits, viz:		
Total Net Debts of the City		$6,403,865 10

BALANCE.

Total of Fixed Assets:	
Land, Buildings, Equipments (B–VI.)	$11,208,211 81
Deduct Total Net Debts of the City, as above	6,403,865 10
Balance of this Account, General Surplus (B–I.)	$4,804,346 71

* Balance of Schedule B–II. will appear under *one* or the *other* of these heads.

† Balance of other schedules, B–III., etc., will appear in like manner.

‡ Fixed Assets are set up by themselves under "Balance." (See above.)

CITY FUNDED DEBT.

There have been additions to the City Funded Debt during the year as follows:

Cambridge Bridge Loan, registered and coupon bonds payable in forty years, at an annual interest of three and one-half per cent.	
For the purpose of the construction of the "Cambridge Bridge" and its approaches, and for other purposes, as authorized under the provisions of Chapter 467 of the Legislative Acts of 1898.	$450,000 00
Cambridge Bridge Special Loan, (Charles River Dam) registered bonds payable in thirty years, at an annual interest of three and one-half per cent.	
For the purpose of the payment of the amount of expenses imposed upon the City of Cambridge, under the provisions of Chapter 105 of the resolves of the year 1901.	28,000 00
Building Loan, registered and coupon bonds payable in twenty years, at an annual interest of three and one-half per cent.	
For the purpose of the construction of an engine house on the City land at the junction of Garden and Sherman Streets .	30,000 00
Park Loan, registered bonds payable in forty years, at an annual interest of three and one-half per cent.	
For the purpose of paying for property purchased, taken or held for a public park or esplanade as authorized by Chapter 341 of the Acts of 1892, Chapter 337, Acts of 1893 and Acts in amendment thereof and in addition thereto' and also for defraying the expense of constructing such park or esplanade and for any purpose incident to the protection, enlargement or advancement of a public park or esplanade in said City of Cambridge, as authorized by Chapter 221 of the Acts of the year 1899 . .	31,000 00
Schoolhouse Loans, registered and coupon bonds payable in twenty years, at an annual interest of three and one-half per cent.	
For the purpose of the construction of a schoolhouse in Ward Seven	100,000 00
For the purpose of the enlargement of the forge shop at the Rindge Manual Training School	6,000 00
Sewer Loans, registered bonds payable in thirty years, at an annual interest of three and one-half per cent.	
For the purpose of constructing sewers, as authorized by Chapters 189 and 473 of the Acts of 1899	47,000 00
For the purpose of constructing sewers, as authorized by Chapter 383 of the Acts of 1903	25,000 00
For the purpose of constructing sewers, as authorized by Section 11 of Chapter 27 of the Revised Laws	45,000 00
Street Loan, registered bonds payable in twenty years, at an annual interest of three and one-half per cent.	
For the purpose of the construction of highways, streets and ways and for defraying the cost of any real estate or interest therein taken for such highways, streets, ways or buildings, under authority conferred by Chapter 212 of the Acts of 1894 . .	65,500 00
	$827,500 00

There has been a decrease in the City Debt by the payment of matured bonds as follows:

City Loan, coupon bonds issued Aug. 1, 1894, at an annual interest of four per cent.	$52,000 00	
Sewer Loan, coupon bonds issued July 1, 1874, at an annual interest of six per cent.	295,000 00	
Street Widening Loan, coupon bonds issued July 1, 1874, at an annual interest of six per cent. . .	90,000 00	
		437,000 00
Total increase		$390,500 00

	1903.	1904.	Increase.	Decrease.
Funded City Debt.....	$5,489,900 00	$5,880,400 00	$390,500 00	.....
Sinking Funds.....	1,108,978 49	873,343 60	.....	$235,634 89
Net Funded City Debt.....	$4,380,921 51	$5,007,056 40	$626,134 89	....

The following is a statement of the total funded debt of the City, with the rates of interest thereon : —

BRIDGE LOAN.

Date of Issue.	Rate of Interest.	When Due.	Amonnt.	Total.
Oct. 1, 1887.....	4 per cent.—30 yrs ...	Oct. 1, 1917.... .	$10,000 00	
July 1, 1888.....	4 " —30 "	July 1, 1918.....	100,000 00	
Sept. 1, 1888.....	4 " —30 "	Sept. 1, 1918.....	100,000 00	
Mar. 1, 1889.....	4 " —30 "	Mar. 1, 1919	115,000 00	
Nov. 1, 1890.....	4 " —30 "	Nov. 1, 1920.....	5,000 00	
July 1, 1891.....	4 " —30 "	July 1, 1921.....	60,000 00	
Aug. 1, 1893.....	4 " —30 "	Aug. 1, 1923.....	10,000 00	
July 1, 1899.....	3½ " —40 "	July 1, 1939.. ...	50,000 00	
July 2, 1900.... ...	3½ " —40 "	July 2, 1940.....	100,000 00	
Feb. 1, 1901...	3 " —40 "	Feb. 1, 1941.....	100,000 00	
Nov. 1, 1901.....	3½ " —40 "	Nov. 1, 1941	100,000 00	
July 1, 1902	3½ " —40 "	July 1, 1942.....	100,000 00	
Jan. 1, 1903	3½ " —40 "	Jan. 1, 1943.....	50,000 00	
April 1, 1903.....	3½ " —40 "	Apr. 1, 1943.....	50,000 00	
Aug. 1, 1903.....	3½ " —40 "	Aug. 1, 1943.....	50,000 00	
Jan. 1, 1904.....	3½ " —40 "	Jan. 1, 1944.....	100,000 00	
May 1, 1904.....	3½ " —40 "	May 1, 1944.....	200,000 00	
Aug. 1, 1904.....	3½ " —40 "	Aug. 1, 1944.	150,000 00	$1,450,000 00

BUILDING LOAN.

Aug. 1, 1894	4 per cent.—20 yrs....	Aug. 1, 1914.....	$118,000 00	
Oct. 1, 1895.....	4 " —20 "	Oct. 1, 1915	60,000 00	
Oct. 1, 1896.....	4 " —20 "	Oct. 1, 1916.....	103,000 00	
April 1, 1903.....	3½ " —20 "	Apr. 1, 1923.....	3,000 00	
April 1, 1904.....	3½ " —20 "	Apr. 1, 1924.....	25,000 00	
May 1, 1904.....	3½ " —20 " ...	May 1, 1924.....	5,000 00	$314,000 00

CAMBRIDGE BRIDGE SPECIAL LOAN.

(Charles River Dam.)

May 1, 1904.....	3½ per cent.—30 yrs....	May 1, 1934.....		$28,000 00

CAMBRIDGE CEMETERY LOAN.

Aug. 1, 1885.....	4 per cent.—20 yrs....	Aug. 1, 1905.....	$65,000 00	
Nov. 1, 1900..... ..	3½ " —10 "	Nov. 1, 1910.....	7,000 00	$72,000 00

Amount carried forward . . . $1,864,000 00

Amount brought forward $1,864,000 00

CITY LOAN.

Aug. 1, 1898	3½ per cent.—10 yrs....	Aug. 1, 1908.....	$4,900 00	
July 1, 1899.....	3½ " —10 "	July 1, 1909.....	45,000 00	
Nov. 1, 1899.... ...	3½ " —10 "	Nov. 1, 1909.....	32,000 00	
Nov. 1, 1900.....	3½ " —10 "	Nov. 1, 1910.....	36,000 00	
Nov. 1, 1901.....	3½ " —10 "	Nov. 1, 1911.....	36,000 00	
July 1, 1902.....	3½ " —10 "	July 1, 1912.....	38,000 00	
Nov. 1, 1902	3½ " —10 "	Nov. 1, 1912.....	20,000 00	$211,900 00

CLAY LAND LOAN.

July 1, 1896.....	4 per cent.—15 yrs....	July 1, 1911.....	$50,000 00	
Nov. 1, 1897.....	3½ " —15 "	Nov. 1, 1912.....	20,000 00	
Aug. 1, 1898.....	3½ " —15 "	Aug. 1, 1913.....	10,000 00	
July 1, 1899.... ...	3½ " —15 "	July 1, 1914	17,000 00	$97,000 00

HOSPITAL LOAN.

July 1, 1902.....	3½ per cent.—20 yrs ...	July 1, 1922		$6,000 00

METROPOLITAN PARK ASSESSMENT LOAN.

Aug. 1, 1902.....	3½ per cent.—30 yrs....	Aug. 1, 1932.....		$46,000 00

PARK LOAN.

Feb. 1, 1894	4 per cent.—30 yrs....	Feb. 1, 1924.....	$360,000 00	
Aug. 1, 1895.... ...	4 " —40 "	Aug. 1, 1935.....	100,000 00	
Feb. 1, 1896.....	4 " —40 "	Feb. 1, 1936.....	100,000 00	
Aug. 1, 1896	4 " —30 "	Aug. 1, 1926.....	100,000 00	
Oct. 1, 1896.....	4 " —30 "	Oct. 1, 1926	40,000 00	
Sept. 1, 1897.....	3½ " —40 "	Sept. 1, 1937.....	100,000 00	
Nov. 1, 1897.....	3½ " —40 "	Nov. 1, 1937.	50,000 00	
June 1, 1898..... ..	3½ " —40 "	June 1, 1938.....	50,000 00	
Aug. 1, 1898..	3½ " —40 "	Aug. 1, 1938.....	100,000 00	
Aug. 1, 1899..... ..	3½ " —40 "	Aug. 1, 1939.	100,000 00	
July 2, 1900.....	3½ " —40 "	July 2, 1940.....	50,000 00	
Nov. 1, 1900.....	3½ " —40 "	Nov. 1, 1940.....	50,000 00	
Nov. 1, 1901.....	3½ " —40 "	Nov. 1, 1941.....	100,000 00	
July 1, 1902.....	3½ " —40 "	July 1, 1942.....	48,000 00	
April 1, 1903.....	3½ " —40 "	April 1, 1943.....	50,000 00	
Sept. 1, 1904	3½ " —40 "	Sept. 1, 1944.....	25,000 00	
Nov. 1, 1904.....	3½ " —40 "	Nov. 1, 1944.....	6,000 00	$1,429,000 00

PAVING LOAN.

Oct. 1, 1897.....	3½ per cent.—10 yrs....	Oct. 1, 1907.....		$20,000 00

PUBLIC LIBRARY LOAN.

Nov. 1, 1901.....	3½ per cent.—20 yrs....	Nov. 1, 1921.....		$27,000 00

Amount carried forward $3,700,900 00

Amount brought forward $3,700,900 00

SCHOOLHOUSE LOAN.

Oct.	1, 1896.....	4	per cent.—20 yrs....	Oct. 1, 1916.....	$6,000 00	
July	1, 1897.....	3½	" —20 "	July 1, 1917.....	100,000 00	
Nov.	1, 1897.....	3½	" —10 "	Nov. 1, 1907.....	9,500 00	
May	2, 1898.....	3½	" —20 "	May 2, 1918	100,000 00	
June	1, 1898.....	3½	" —20 "	June 1, 1918.....	50,000 00	
Aug.	1, 1898.....	3½	" —20 " ...	Aug. 1, 1918.....	142,000 00	
July	1, 1899.....	3½	" —20 "	July 1, 1919.....	42,000 00	
Nov.	1, 1899.....	3½	" —20 "	Nov. 1, 1919.....	13,000 00	
July	1, 1901.....	3½	" —20 "	July 1, 1921.....	76 000 00	
July	1, 1902.....	3½	" —20 "	July 1, 1922.....	86,500 00	
Oct.	1, 1902.....	3½	" —20 "	Oct. 1, 1922.....	11,000 00	
Oct.	1, 1903.....	3½	" —20 "	Oct. 1, 1923.....	80,000 00	
April	1, 1904.....	3½	" —20 " ...	Apr. 1, 1924.	80,000 00	
Nov.	1, 1904.....	3½	" —20 "	Nov. 1, 1924.....	20,000 00	
Nov.	1, 1904.....	3½	" —20 "	Nov. 1, 1924.....	6,000 00	$822,000 00

SEWER LOAN.

July	1, 1875.....	6	per cent.—30 yrs....	July 1, 1905.....	$144,000 00	
Nov.	1, 1887.....	4	" —20 "	Nov. 1, 1907.....	30,000 00	
Nov.	1, 1889.....	4	" —20 "	Nov. 1, 1909.....	22,000 00	
May	1, 1890.....	4	" —20 "	May 1, 1910.....	15,000 00	
July	1, 1891.....	4	" —20 "	July 1, 1911.....	15,000 00	
Aug.	1, 1894.....	4	" —30 "	Aug. 1, 1924.....	75,000 00	
Oct.	1, 1895.....	4	" —30 "	Oct. 1, 1925.....	60,000 00	
Oct.	1, 1896.....	4	" —20 "	Oct. 1, 1916.....	75,000 00	
Aug.	1, 1901.....	3½	" —30 "	Aug. 1, 1931.....	10,000 00	
Oct.	1, 1903.....	3½	" —30 "	Oct. 1, 1933.....	20,000 00	
May	1, 1904.....	3½	" —30 "	May 1, 1934.....	40,000 00	
Nov.	1, 1904.....	3½	" —30 "	Nov. 1, 1934	5,000 00	$511,000 00

SEWER LOAN. (Improved Sewerage.)

Nov.	1, 1899.....	3½	per cent.—30 yrs....	Nov. 1, 1929.....	$42,000 00	
July	2, 1900.....	3½	" —30 "	July 2, 1930.....	100,000 00	
Aug.	1, 1901.....	3½	" —30 " ...	Aug. 1, 1931.....	100,000 00	
Nov.	1, 1902.....	3½	" —30 "	Nov. 1, 1932.....	20,000 00	
Apr.	1, 1903.....	3½	" —30 "	Apr. 1, 1933	40,000 00	
May	1, 1904.....	3½	" —30 "	May 1, 1934.....	47,000 00	$349,000 00

SEWER LOAN. (Separate System of Drainage.)

May	1, 1904.....	3½	per cent.—30 yrs....	May 1, 1934.....		$25,000 00

STREET LOAN.

Aug.	1, 1894.....	4	per cent.—20 yrs....	Aug. 1, 1914.....	$30,000 00	
Oct.	1, 1895.....	4	" —20 "	Oct. 1, 1915	60,000 00	
Oct.	1, 1896.....	4	" —20 "	Oct. 1, 1916.....	137,000 00	
Nov.	1, 1897.....	3½	" —10 "	Nov. 1, 1907.....	11,000 00	
May	2, 1898.....	3½	" —20 "	May 2, 1918	15,000 00	
Nov.	1, 1899.....	3½	" —20 "	Nov. 1, 1919.....	5,000 00	
Nov.	1, 1900.....	3½	" —20 "	Nov. 1, 1920.....	21,000 00	
July	1, 1901.....	3½	" —20 "	July 1, 1921.....	54,000 00	
July	1, 1902.....	3½	" —20 "	July 1, 1922	30,000 09	
Nov.	1, 1902.....	3½	" —20 "	Nov. 1, 1922.....	14,000 00	
April	1, 1903	3½	" —20 "	April 1, 1923.....	4,000 00	
Nov.	2, 1903	3½	" —20 "	Nov. 2, 1923.....	12,000 00	
Sept.	1, 1904.....	3½	" —20 "	Sept. 1, 1924.....	59,000 00	
Nov.	1, 1904.....	3½	" —20 "	Nov. 1, 1924.....	6,500 00	$458,500 00

Amount carried forward $5,866,400 00

Amount brought forward	$5,866,400 00

STREET WIDENING LOAN.

July 1, 1875.....	6 per cent.—30 yrs....	July 1, 1905.....		$14,000 00

TOTAL FUNDED CITY DEBT	$5,880,400 00

Following is a statement of the total Funded Water Debt of the City, with rates of interest thereon: —

Date of Issue.	Rate of Interest.	When Due.	Amount.	Total.
Nov. 1, 1886	3½ per cent.—20 yrs....	Nov. 1, 1906.....	$43,000 00	
Oct. 1, 1887.....	4 " —20 "	Oct. 1, 1907	90,000 00	
Nov. 1, 1887.....	4 " —20 "	Nov. 1, 1907.....	22,000 00	
July 1, 1888.....	4 " —20 "	July 1, 1908.....	46,000 00	
Aug. 1, 1888.....	4 " —20 "	Aug. 1, 1908.....	25,000 00	
July 1, 1889.....	4 " —20 "	July 1, 1909.....	20,000 00	
May 1, 1885.....	4 " —25 "	May 1, 1910.	288,000 00	
July 1, 1890.....	4 " —20 "	July 1, 1910.... .	75,000 00	
Sept. 1, 1890.....	4 " —20 "	Sept. 1, 1910	125,000 00	
Jan. 1, 1891...	4 " —20 "	Jan. 1, 1911.....	20,000 00	
Oct. 1, 1891	4 " —20 "	Oct. 1, 1911.....	35,000 00	
Jan. 1, 1892.....	4 " —20 "	Jan. 1, 1912	150,000 00	
May 2, 1892.....	4 " —20 "	May 2, 1912.....	75,000 00	
Nov. 1, 1892.....	4 " —20 "	Nov. 1, 1912.....	45,000 00	
Feb. 1, 1893.....	4 " —20 "	Feb. 1, 1913.....	100,000 00	
Aug. 1, 1893.....	4 " —20 "	Aug. 1, 1913	50,000 00	
April 1, 1895.....	4 " —20 " ...	April 1, 1915.....	200,000 00	
Aug. 1, 1895.....	4 " —20 "	Aug 1, 1915	200,000 00	
April 1, 1894.....	4 " —30 "	April 1, 1924.	300,000 00	
April 1, 1896.....	4 " —20 "	April 1, 1916	100,000 00	
July 1, 1896.	4 " —20 "	July 1, 1916.....	200,000 00	
Aug. 1, 1896.....	4 " —20 "	Aug. 1, 1916.....	100,000 00	
Oct. 1, 1896.....	4 " —20 "	Oct 1, 1916.	265,100 00	
April 1, 1897.... ...	3½ " —20 "	April 1, 1917	200,000 00	
July 1, 1897.....	3½ " —20 "	July 1, 1917.....	100,000 00	
Nov. 1, 1897.....	3½ " —20 "	Nov. 1, 1917.....	75,000 00	
Dec. 1, 1897.....	3½ " —20 "	Dec. 1, 1917.....	140,000 00	
May 2, 1898..	3½ " —20 "	May 2, 1918.....	50,000 00	
June 1, 1898.... ..	3½ " —20 "	June 1, 1918.....	60,000 00	
Nov. 1, 1898.....	3½ " —20 "	Nov. 1, 1918.....	50,000 00	
Nov. 1, 1899.....	3½ " —20 "	Nov. 1, 1919.....	23,000 00	
Nov. 1, 1900.....	3½ " —20 "	Nov. 1, 1920.....	30,000 00	
July 1, 1901.....	3½ " —20 "	July 1, 1921.....	30,000 00	
July 1, 1902.....	3½ " —20 "	July 1, 1922.....	13,500 00	
Nov. 1, 1902.....	3½ " —20 "	Nov. 1, 1922.....	5,000 00	$3,350,600 00

	1903.	1904.	Decrease.	Increase.
Funded Water Dept.	$3,350,600 00	$3,350,600 00		
Sinking Fund.....	1,262,821 46	1,218,686 74	$44,134 72	
Net Funded Water Debt.....	$2,087,778 54	$2,131,913 26		$44,134 72

RECAPITULATION.

Amount of funded City Loan upon which interest is at 6 per cent.	$158,000 00	
Amount of funded City Loan upon which interest is at 4 per cent.	2,021,000 00	
Amount of funded City Loan upon which interest is at 3½ per cent.	3,601,400 00	
Amount of funded City Loan upon which interest is at 3 per cent.	100,000 00	
		$5,880,400 00
Amount of Water Loan upon which interest is at 4 per cent.	$2,531,100 00	
Amount of Water Loan upon which interest is at 3½ per cent.	819,500 00	
		3,350,600 00

Temporary loans for the past twelve years, and interest upon the same: —

Year.	Temporary Loan.	Interest paid upon Loan.	Year.	Temporary Loan.	Interest paid upon Loan.
1893	$541,850	$11,560 32	1899	$550,000	$6,968 86
1894	125,000	3,106 15	1900	600,000	9,961 96
1895	550,000	6,194 64	1901	550,000	6,759 03
1896	786,000	12,344 07	1902	520,000	8,337 76
1897	600,000	6,186 40	1903	701,000	9,388 13
1898	500,000	9,642 86	1904	550,000	8,548 37

THE TRUST FUNDS

Assumed by the City are held by trustees, and interest is paid upon them at the rate of 6 per cent. annually, as follows: —

Name of Fund.	Amount.	Interest.	
Daniel White Charity Fund	$5,000	At 6 per cent	$300
Dowse Institute Fund	10,000	At 6 per cent	600
Sanders Temperance Fund	10,000	At 6 per cent	600
	$25,000		$1,500

SCHEDULE B

[CHAPTER 322.]

AN ACT TO PROVIDE FOR THE AUDITING OF CERTAIN TRUST FUNDS AND ACCOUNTS.

Be it enacted, etc., as follows:

SECTION 1. It shall be the duty of city and town auditors at least once every year, and so much oftener as they may deem it necessary, to audit the accounts of the trustees of any property the principal or income of which, in whole or in part, was bequeathed or given in trust for the benefit of the city or town or any part thereof, or for the benefit of the inhabitants of the city or town or of any part thereof, and to examine and estimate the funds, securities and evidences of property held by such trustees. City and town auditors shall include in their annual reports a report of such auditing and investigation; and if they discover any fraud or irregularity they shall immediately report the same to the mayor and treasurer of the city or to the selectmen and treasurer of the town.

SECTION 2. It shall be the duty of the trustees designated in section one hereof to give city and town auditors free access to their accounts, funds, securities and evidences of property; and any such trustee who refuses to exhibit his trust accounts, funds, securities and evidences as aforesaid shall be subject to a fine of not less than fifty nor more than two hundred dollars.

SECTION 3. This act shall be construed as applying only to property held in trust for public uses. [*Approved May 9, 1904.*]"

Under the provisions of the foregoing Act, I hereby certify that I have examined the accounts, vouchers and securities belonging to the Trust Funds held for public uses and find them correct and in excellent condition.

Attest,
HARRY T. UPHAM, *City Auditor.*

CEMETERY FUND.

Amount of Fund Dec. 1, 1903		$60,686 20
Received in 1904 from proprietors of lots . . .		1,895 90
		$62,582 10
Lots deeded to City and held in trust, Deed Trust Fund		132 00
		$62,714 10
Deposit in Cambridgeport Savings Bank	$814 10	
City of Cambridge Bonds . . .	61,900 00	
		$62,714 10
The investments earned in 1904		$2,226 43

Which amount was passed to the credit of Cambridge Cemetery account, to be used for care of lots which have been put in perpetual care.

THE BRIDGE CHARITABLE FUND.

Amount on deposit in Cambridgeport Savings Bank	$5,089 52

SARAH E. RUSSELL FUND.

Amount on deposit in Cambridgeport Savings Bank .		$814 41
Interest paid, as per provision of bequest . . .	$28 74	

CITIZENS' SUBSCRIPTION FUND.

Receipts	$353 26
Expenditures	269 24
Balance in bank	$84 02
The principal is invested in Cambridge Sewer Bonds	$5,500 00

CUMMINGS FUND.

Receipts	$139 43
Expenditures	124 93
Balance in bank	$14 50
The principal is invested in a Cambridge Water Bond	$2,000 00

FAY FUND.

Receipts	$66 52
Expenditures	63 60
Balance in bank	$2 92
The principal is invested in a Cambridge Schoolhouse Bond	$1,000 00

WILLIAM E. SAUNDERS FUND.

Receipts	$344 95
Expenditures	272 70
Balance in bank	$72 25
The principal is invested as follows: —	
City of Cambridge Bonds	$7,000 00
Deposit in Cambridgeport Savings Bank	369 09
	$7,369 09

CAMBRIDGE, NOV. 19, 1904.

Gilbert A. A. Pevey, Esq., City Solicitor, Cambridge, Mass.: —

DEAR SIR: — Your opinion is respectfully asked as to whether Section 1, Chapter 322, of the Acts of 1904, applies to the funds held by the Commissioners of the Sinking Funds or not.

Very truly yours,

HARRY T. UPHAM,

City Auditor.

CAMBRIDGE, DEC. 13, 1904.

City Auditor, City of Cambridge, Mass.: —

DEAR SIR: — I have your inquiry of November 19th, as to whether or not Section 1, Chapter 322, of the Acts of 1904, applies to the funds held by the Commissioners of the Sinking Funds.

Except in so far as the Commissioners of the Sinking Funds of the City are made trustees under some devise or gift, it seems to me that the Act does not apply to them. The Act in question seems to apply strictly "to the accounts of the Trustees of any property the principal or income of which in whole or in part was bequeathed or given in trust."

The establishment of the sinking funds under the provisions of the Revised Laws was for the purpose of providing a way whereby the City could make provision for the redemption of debts which it was authorized especially to create under different provisions of the statutes of the Commonwealth.

Respectfully submitted,

G. A. A. PEVEY,

City Solicitor.

SINKING FUNDS.

CAMBRIDGE BRIDGE.

Amount of Fund Nov. 30, 1903	$13,615 97
Interest accumulations (1904)	411 53
Appropriation for 1904	8,000 00
Amount of fund Nov. 30, 1904	$22,027 50

HARVARD BRIDGE.

Amount of Fund Nov. 30, 1903	$151,690 28
Interest accumulations (1904)	4,584 82
Appropriation for 1904	8.800 00
Amount of Fund Nov. 30, 1904	$165,075 10

HOSPITAL.

Amount of Fund Nov. 30, 1903	$225 00
Interest accumulations (1904)	6 80
Appropriation for 1904	225 00
Amount of Fund Nov. 30, 1904	$456 80

METROPOLITAN PARK ASSESSMENT.

Amount of Fund Nov. 30, 1903	$1,012 00
Interest accumulations (1904)	30 60
Appropriation for 1904	1,012 00
Amount of Fund Nov. 30, 1904	$2,054 60

PARK.

Amount of Fund Nov. 30, 1903	$157,554 68
Interest accumulations (1904)	4,762 09
Appropriation for 1904	22,973 33
Amount of Fund Nov. 30, 1904	$185,290 10

CLAY LAND.

Amount of Fund Nov. 30, 1903	$33,459 64
Interest accumulations (1904)	1,011 31
Appropriation for 1904	5,335 00
Amount of Fund Nov. 30, 1904	$39,805 95

IMPROVED SEWERAGE.

Amount of Fund Nov. 30, 1903	$16,183 15
Interest accumulations (1904)	489 15
Appropriation for 1904	6,644 00
Amount of Fund Nov. 30, 1904	$23,316 30

GENERAL.

Amount of Fund Nov. 30, 1903		$735,237 77
Interest accumulations (1904)		32,671 23
Appropriation for 1904		104,408 25
		$872,317 25

EXPENDED.

For Commissioners of Sinking Funds		$437,000 00
Amount of Fund Nov. 30, 1904		$435,317 25

WATER LOAN, SINKING FUND.

Amount of Fund Nov. 30, 1903		$1,062,821 46
Interest accumulations (1904)		34,342 78
Appropriation for 1904		121,522 50
Amount of Fund Nov. 30, 1904		$1,218,686 74

COMMISSIONERS OF SINKING FUNDS.

Amount of Funds Nov. 30, 1903		$1,108,978 49

RECEIVED.

From City Treasurer, appropriations for 1904: —		
Cambridge Bridge	$8,000 00	
Clay Lands	5,335 00	
General	104,408 25	
Harvard Bridge	8,800 00	
Improved Sewerage	6,644 00	
Parks	22,973 33	
Hospital	225 00	
Metropolitan Park Assessments	1,012 00	
		157,397 58
Interest accumulations		43,967 53
		$1,310,343 60

EXPENDED.

For matured bonds as follows: —		
City Loan, due Aug. 1, 1904	$52,000 00	
Sewer Loan, due July 1, 1904	295,000 00	
Street Widening Loan, due July 1, 1904	90,000 00	
		437,000 00
Amount of Fund Nov. 30, 1904		$873,343 60

TRUSTEES OF SINKING FUND OF WATER WORKS.

Amount of Fund Nov. 30, 1903		$1,062,821 46

RECEIVED.

From City Treasurer for amount due and appropriated by the City Council	$121,522 50	
Interest accumulations	34,342 78	
		155,865 28
Amount of Fund Nov. 30, 1904		$1,218,686 74

TAXES.

The amount of taxes assessed by the Board of Assessors on the real and personal estates and polls of Cambridge, for the year 1904, was as follows: —

Valuation of real estate		$87,481.100 00
Valuation of personal estate		17,346 500 00
		$104,827,600 00
Assessed at $17.90 per $1,000 gives		$1,876.414 04
25,968 polls at $2		51,936 00
Bank stock (non-residents separately assessed)		6,422 52
		$1,934,772 56
The tax is divided as follows: —		
For City purposes *		$1,549,080 06
County assessments		109,201 21
Overlay		45,914 29
State assessments: —		
State charge for non-resident bank stock		6,422 52
State	$80,775 00	
Sewerage	86,891 58	
Parks	38,064 53	
Armory	10,445 68	
Grade Crossings	7,977 69	
		224,154 48
		$1,934,772 56
Increase in number of polls since last year: —		
219 polls at $2		$438 00
Increase in real estate valuation		417,700 00
		$418,138 00
Decrease in personal valuation		362,010 00
Gain in valuation since last year		$56,128 00
Number of houses in 1904		13,858⅝
Number of horses assessed		4,142
Number of cows assessed		140
Number of swine assessed		58
Number of mules assessed		25
Number of hens assessed		100

*To meet the City expenses the income from various departments is added to this sum raised by taxation.

POLLS AND VALUATION OF POLLS AND ESTATES, MAY 1, 1902.

Wards.	Polls.	Valuation of Polls.	Personal.	Real Estate.	Total Real and Personal	Dwellings.	Total Tax.
One	2,002	$4,004 00	$1,661,120	$7,584,600	$9,245,720	817	$173,200.676
Two	1,839	3,678 00	358,800	2,912,100	3,270,900	787	63,535.47
Three	2,858	5,716 00	259,000	3,578,700	3,837,700	1,200	75,945.91
Four	2,927	5,854 00	1,625.085	6,866,400	8,491,485	1,399	161,248.1755
Five	2,217	4,434 00	1,929,080	7,063,900	8,992,980	1,163 1-6	169,005.534
Six	3,302	6,604 00	1,267,100	9,894,500	11,161,600	1,597	210,861.28
Seven	2,741	5,482 00	1,429,700	6,751,000	8,180,700	1,754 1-2	155,188.81
Eight	2,132	4,264 00	2,868,600	10,612,400	13,481,000	1,301	250,966.30
Nine	1,850	3,700 00	4,615,000	12,632,700	17,247,700	1,384	319,332.91
Ten	1,550	3,100 00	1,324,200	6,960,400	8,284,600	1,131	154,708 18
Eleven	2,262	4,524 00	405,300	5,540,200	5 945,500	1,356	113,326.65
Totals	25,680	$51,360 00	$17,742,985	$80,396,900	$98,139,885	13,889 2-3	$1,847,319.8955

POLLS AND VALUATION OF POLLS AND ESTATES, MAY 1, 1903.

Wards.	Polls.	Valuation of Polls.	Personal.	Real Estate.	Total Real and Personal	Dwellings.	Total Tax.
One	1,974	$3,948 00	$1,511,050	$8,277,700	$9,788,750	814	$169,377.875
Two	1,861	3,722 00	427,600	3,071,300	3,498,900	787	62,853.41
Three	2,880	5,760 00	198,000	3,639,800	3,837,800	1,190 1-2	70,618.82
Four	3,006	6,012 00	1,745 000	7,266,500	9,011,500	1,383	158,306.35
Five	2,276	4,552 00	2,182,780	7,5-4,600	9,747,380	1,099 1-2	169,282.722
Six	3,197	6,394 00	1,181,400	10,290,600	11,472,000	1,609	200,270.80
Seven	2,788	5,576 00	1,505,600	7,088,100	8,593,700	1,759 1-2	150,809.53
Eight	2,066	4,132 00	2,428,200	12,499,400	14,927,600	1,321	256,408.44
Nine	1,865	3,730 00	4,862,580	13,876,100	18,738,680	1,421	320,413.692
Ten	1,523	3,046 00	1,244,800	7,528,100	8,772,900	1,090	151,308.01
Eleven	2,313	4,626 00	421,500	5,961,200	6,382,700	2,358 1-2	112,493.63
Totals	25,749	$51,498 00	$17,708,510	$87,063,400	$104,771,910	14,833	$1,822,143.279

POLLS AND VALUATION OF POLLS AND ESTATES, MAY 1, 1904.

Wards.	Polls.	Valuation of Polls.	Personal.	Real Estate.	Total Real and Personal	Dwellings.	Total Tax.
One	1,784	$3,568 00	$1,250,500	$8,519,500	$9,770,000	814	$178,451.00
Two	1,676	3,352 00	374,900	3,088,200	3,463 100	787	65,341.49
Three	2,968	5,936 00	174,500	3,650,200	3,824,700	1,185	74,398.13
Four	3,046	6,092 00	1,742,700	7,210,800	8,953,500	1,359	166,359.65
Five	2,334	4,668 00	2,359,520	7,637,000	9,996,520	1,134 1-2	183,605.708
Six	3,368	6,736 00	1,193,300	10,482,200	11,675,500	1,605	215,727.45
Seven	2,799	5,598 00	1,518,900	7,068,500	8,587,400	1,735 5-8	159,312.46
Eight	2,312	4,624 00	2,382,600	12,390,100	14,772,700	1,315	269,055 33
Nine	1,886	3,772 00	4,685,980	13,970,500	18,656,480	1,436	337,722.992
Ten	1,519	3,038 00	1,190,900	7,523,900	8,714,800	1,093	159,032.92
Eleven	2,276	4,552 00	472,700	5,940,200	6,412,900	1,394 1-2	119,342.91
Totals	25,968	$51,936 00	$17,346,500	$87,481,100	$104,827,600	13,858 5-8	$1,928,350.040

Statement of the valuations of the personal property and real estate of the City of Cambridge, with the number of polls, dwellings, and rate of taxation for the past fifteen years: —

Year.	Polls.	Personal.	Real Estate.	Total.	Dwellings.	Rate per $1,000.
1890	19,221¾	$15,339,925	$52,235,000	$67,574,925	10,615	$15 60
1891	20,731¼	16,508,770	54,167,914	70,676,684	10,932	15 50
1892	22,013¼	17,687,595	56,668.100	74,355,695	11,359	15 00
1893	22,752	17,511,089	58,782.900	76,293,989	11,768	16 40
1894	22,172	16,658,320	60,877,300	77,535,620	12,262	15 80
1895	22,781	16,607,360	64,303,700	80,911,060	12,305	15 70
1896	23,847	15,914,995	67,835,100	83,750,095	12,723	15 10
1897	24 407	16,302,545	70,339,200	86,641,745	13,217	17 50
1898	24,628	16,642,990	72,908,100	89,551 090	13,473	16 40
1899	24,995	16,991,995	74,550,800	91,542,795	13,588	17 10
1900	25,117	17,865,230	76,600,700	94,465,930	13,713	16 90
1901	25,306	17,648,575	78,568,300	96,216,875	13,846½	16 90
1902	25,680	17,742,985	80,396,900	98,139,885	13,889⅔	18 30
1903	25,749	17,708,510	87,063,400	104,771,910	13,833	16 90
1904	25,968	17,346,500	87,481,100	104,827,600	13,858	17 90

Abatements and discounts upon taxes for the past fifteen years, and amount of tax uncollected December 1, 1904: —

Year.	Total Tax.	Total Abatements.	Total Discounts.	Amount of Tax uncollected December 1, 1904.
1890	$1,099,741 38	$20,966 82	$28,012 44	.....
1891	1,143,712 67	21,343 12	.....	.....
1892	1,240,186 50	21,636 54	.....	.....
1893	1,303,639 84	24,678 10	.....	.....
1894	1,278,899 72	26,926 07	.....	.....
1895	1,324,613 76	19,427 40	.....	.....
1896	1,321,932 65	17,922 54	.....	.....
1897	1,574,047 50	22,081 73	.....	$26,878 92
1898	1,527,863 88	27,566 98	.....	27,157 44
1899	1,623,592 35	35,317 61	.....	21,866 97
1900	1,654,588 36	33,005 90	.....	23,141 79
1901	1,683,690 84	24,390 38	.....	22,138 76
1902	1,854,557 82	30,013 44	.....	24,991 54
1903	1,828,456 95	41,525 33	.....	33,526 00
1904	1,934,772 56	50,088 47	.....	428,753 91

ABATEMENTS — TAXES.

	Real.	Personal.	Polls.	Total.
Taxes of 1899	.....	$8 55	$8 00	$16 55
" " 1900	.....	72 67	20 00	92 67
" " 1901	$5 00	437 37	16 00	458 37
" " 1902	84 61	575 12	68 00	727 73
" " 1903	15,981 23	4,176 37	202 00	20,359 60
" " 1904	19,847 58	8,433 97	152 00	28,433 55
Street Watering	.....	.....	.....	47 82
	$35,918 42	$13,704 05	$466 00	$50,136 29

The valuation of estates in this City, for the years hereinbefore mentioned, are the same as originally made by the Board of Assessors during those years, and the same figures were reported by that Board to the Tax Commissioners for each of the years respectively. These valuations were subject to changes in each year, after such report was made, as shown by the following: —

Net valuations of estates in the City of Cambridge, for the past three years, after adding the amounts of all supplementary warrants and deducting therefrom all abatements: —

Year.	Total Valuation.	Abatements.	Net Valuation.
1902	$98,229,932	$1,632,918	$96,597,014
1903	104,911,076	2,789,631	102,121,445
1904	104,843,600	1,579,975	103,263,625
	$307,984,608	$6,002,524	$301,982,084

BORROWING CAPACITY.

The average net valuation of the City of Cambridge for the years 1902, 1903 and 1904			$100,660,694

This last sum represents the amount upon which the limit of the rate of taxation, and also of municipal indebtedness is fixed under the provisions of Chapter 312 of the acts of the year 1885.

2½ per cent on same is			$2,516,517 35
The entire City Debt is		$5,880,400	
Of this amount the following loans are not within the legal debt limit, being exempted by the following Acts of the Legislature: —			
Cambridge Bridge Loan. Acts of 1898, Chapter 467 . . .	$1,050,000		
Cambridge Bridge Special Loan. Charles River Dam Acts of 1904, Chapter 158 . . .	28,000		
Clay Land Loan. Acts of 1896, Chapter 175 . . .	97,000		
Harvard Bridge Loan. Acts of 1887, Chapter 282; Acts of 1888, Chapter 73; Acts of 1891, Chapter 311 . .	400,000		
Park Loan. Acts of 1892, Chapter 341; Acts of 1893, Chapter 337; Acts of 1894, Chapter 89; Acts of 1897, Chapter 469; Acts of 1899, Chapter 221 . .	1,429,000		
Sewer Loan. Acts of 1899, Chapter 189; Acts of 1899, Chapter 473 . .	349,000		
Acts of 1903, Chapter 383 . .	25,000		
Hospital Loan. Acts of 1895, Chapter 99 . . .	6,000		
Metropolitan Park Assessment Loan. Acts of 1902, Chapter 325 . . .	46,000		
		3,430,000	
		$2,450,400	
The entire Sinking Fund is . . .	$873,343 60		
Of this amount there should be deducted on account of Exempted Loans as follows: --			
Cambridge Bridge . .	$22,027 50		
Harvard Bridge . . .	165,075 10		
Parks	185,290 10		
Amounts carried forward	$372,392 70	$873,343 60	$2,450,400 $2,516,517 35

Amounts brought forward	$372,392 70	$873,343 60	$2,450,400 00	$2,516,517 35
Clay Lands	39,805 95			
Improved Sewerage	23,316 30			
Hospital	456 80			
Metropolitan Park Assessment	2,054 60			
		438,026 35		
Net Sinking Fund			435,317 25	
Net City Debt December 1, 1904				2,015,082 75
Borrowing capacity for City purposes December 1, 1904				$501,434 60

ACTS OF 1885, CHAPTER 312.

"AN ACT TO LIMIT MUNCIPAL DEBT OF AND THE RATE OF TAXATION IN CITIES.

"Be it enacted, etc., as follows:—

"SECTION 1. The taxes assessed on property in any city, except the City of Boston, exclusive of State Tax, County Tax and sums required by law to be raised on account of the City Debt, shall not exceed in any year twelve dollars on every one thousand dollars of the average of the assessors' valuations of the taxable property therein for the preceding three years, the valuation being first reduced by the amount of all abatements allowed thereon, previous to the thirty-first day of December in the year preceding said assessment, and any order or appropriation requiring a larger assessment than is herein limited shall be void.

"SECT. 2. The limit of indebtedness of cities shall hereafter be two and one-half per cent. on the average valuation prescribed in Section one of this act."

TAX LEVY.

Average net valuation for 1902, 1903 and 1904	$100,660,694
Assessed at $12 per $1,000 gives	1,207,928

Which is the legal limit of taxation for muncipal purposes for 1904, outside of the Sinking Fund requirements, Interest on the Debt and State and County Tax, unless advantage is taken of the following Legislative Act of 1893:—

ACTS OF 1893, CHAPTER 247.

"AN ACT AUTHORIZING ASSESSORS IN CITIES OF LESS THAN ONE HUNDRED THOUSAND INHABITANTS TO USE THE VALUATION OF THE YEAR PRECEDING AS A BASIS OF TAXATION.

"Be it enacted etc., as follows:—

"SECTION 1. In every city containing less than one hundred thousand inhabitants, the taxes assessed on property, exclusive of State Tax, County Tax and sums required by law to be raised on account of City Debt, shall not exceed in any year twelve dollars on every one thousand dollars of the assessors' valuation of the taxable property therein for the preceding year, said valuation being first reduced by the amount of all abatements allowed thereon previous to the thirty-first day of December in the year preceding said assessment, and any order or appropriation requiring a larger assessment than is herein limited shall be void; but the City Council of any city coming within the provisions of this Act may, in any year decide that the taxes assessed shall be raised in accordance with the provisions of Section one of Chapter three hundred and twelve of the Acts of the year eighteen hundred and eighty five."

In which case the net valuation for 1904 being	$103,263,625
Assessed at $12 per $1,000 gives	1,239,163

ESTIMATED RECEIPTS AND ACTUAL RECEIPTS FOR THE YEAR ENDING NOVEMBER 30, 1904.

	Actual.	Estimated.
Assessors' Department	$5 00	....
Bridge Department	380 42	$400 00
Cemetery Department	14,836 53	18,000 00
City Clerk Department	1,216 98	.....
City Messenger Department	1,426 03	1,100 00
Contingent Fund	48 15	....
Court Fines	4,386 10	4,100 00
Electrical Department	210 35	.....
Fire Department	245 00	150 00
Health Department	2,068 36	.....
Interest	15,804 45	12,000 00
Law Department	500 00	500 00
City Home	1,039 01	800 00
Farm	4,286 47	5,500 00
House Offal	11,729 75	10,000 00
Outside Aid	2,340 36	900 00
Park Department:—		
Rents, etc	2,137 60	2,000 00
Bath House, etc	1,461 15	1,500 00
Brown Tail Moth Extermination	1,530 14	.....
Police Department	1,281 83	900 00
Public Library	616 29	500 00
Public Property	10,726 56	4,700 00
School Department:—		
Tuition of Non-residents	7,026 74	8,500 00
Supplies	633 14	500 00
Sealer of Weights and Measures	829 97	900 00
Sewer Department:—		
Assessments, etc	2,258 60	6 000 00
Labor and Materials	70 36	100 00
State Aid	15,036 50	15,000 00
Street Department:—		
Maintenance	2,340 28	2,000 00
Paving	18,699 42	15,000 00
Watering	18,612 72	16,000 00
Treasury Department	2,430 81	2,500 00
Water Works	353,828 07	359,869 76
Betterments	493 70	500 00
Grade Crossings	40,000 00	.....
Premium on Loans	7,022 50	.....
Licenses	7,530 23	8,050 00
Tax, Corporation	79,818 58	85,000 00
Tax, National Bank	16,961 25	18,000 00
Taxes 1904	1,931,657 99	1,947,292 27
Tax, Street Railway	73,480 56	73,480 56
	$2,657,007 95	$2,621,742 59

The following appropriations were to be provided for by the issue of bonds as follows: —

	Appropriations.	Bonds Issued for.
Cambridge Bridge Special Loan (Charles River Dam)	$28,000 00	$28,000 00
Cambridge Bridge	450,000 00	450,000 00
New Engine House, Ward 10	30,000 00	30,000 00
Land Damages and Street Construction	66,100 00	65,500 00
Park Construction and Lands	31,000 00	31,000 00
New Schoolhouse, "Houghton"	100,000 00	100,000 00
Sewers, Construction	51,500 00	45,000 00
Sewers, Improved Sewerage	47,000 00	47,000 00
Sewers, Separate System of Drainage	25,000 00	25,000 00
Addition to Rindge Manual Training Schoolhouse	7,170 00	6,000 00
Premiums received on bonds issued	.....	7,022 50
	$835,770 00	$834,522 50

The difference in the amount received from sale of bonds and the amount appropriated was made up from unestimated revenue received from various sources.

EXPENDITURES OF THE DIFFERENT DEPARTMENTS FROM 1895 TO 1904, INCLUSIVE.

NAMES OF DEPARTMENTS.	Expended in 1895.	Expended in 1896.	Expended in 1897.	Expended in 1898.	Expended in 1899.	Expended in 1900.	Expended in 1901.	Expended in 1902.	Expended in 1903.	Expended in 1904.
Ambulance Department	$2,269 15	$2,452 39	.....	.....	.....	.....	.....	.....	.....	.....
Assessors' Department	12,797 40	12,943 24	$13,077 44	$13,552 25	$13,489 10	$13,498 95	$14,158 06	$13,430 51	$13,983 51	$16,107 64
Auditing Department	3,352 03	3,567 88	3,511 12	3,489 04	3,470 88	3,571 13	3,649 85	3,773 65	4,046 72	4,278 75
Cemetery Department	16,999 40	20,000 00	19,846 77	19,832 66	19,910 23	21,603 34	20,415 24	18,506 45	16,573 12	18,078 82
City Clerk Department	6,404 25	7,107 04	7,193 53	7,759 82	7,875 84	9,042 78	9,113 18	7,566 75	7,594 68	8,234 71
City Messenger Department	2,645 92	2,763 59	2,799 51	2,859 04	2,555 94	2,562 75	2,599 92	3,222 54	2,729 35	3,158 94
Civil Service Department	275 00	249 97	248 07	248 85	247 05	249 60	249 80	249 95	245 05	244 87
Clerk of Committees' Departm'nt	3,708 47	3,925 34	3,946 56	3,972 39	3,968 90	3,970 47	3,990 23	3,999 02	3,657 87	3,727 50
Contingent Fund	14,514 68	16,139 18	7,966 46	11,064 33	13,099 91	25,944 42	16,940 96	13,293 92	17,100 17	9,419 18
Election Expenses	9,476 60	12,463 99	9,943 08	10,861 47	9,948 85	10,196 56	10,429 95	12,676 55	11,974 92	6,540 11
Engineering Department	22,743 52	14,211 55	12,969 29	11,147 34	11,224 85	11,187 79	11,050 64	10,257 33	9,844 41	9,624 92
Executive Department	5,362 15	5,414 08	5,299 35	5,184 26	5,182 88	5,263 48	5,394 49	5,388 00	5,740 92	5,894 15
Fire Department	82,171 99	85,467 88	78,687 13	80,152 89	84,900 23	90,362 64	91,120 04	93,083 78	97,336 98	96,515 55
Health Department	11,482 98	16,999 55	17,059 35	17,496 64	19,754 04	27,245 46	38,989 68	73,941 07	38,304 80	30,243 40
Inspection of Milk and Vinegar	1,388 14	1,586 24	1,583 90	1,499 56	1,500 00	1,499 37	1,670 25	1,674 28	1,599 85	1,661 72
Inspection of Animals	747 89	793 60	796 19	798 12	793 60	798 05	797 45	777 00	794 25	769 64
Inspection of Wires	10,399 82	11,999 74	10,699 98	11,197 60	14,499 98	10,575 99	10,499 95	9,998 71	9,494 12	13,460 41
Interest	118,099 84	132,099 07	134,396 40	135,795 18	139,432 86	150,015 96	153,313 03	164,606 76	227,589 63	230,394 87
Lamp Department	69,926 61	67,325 31	69,264 96	69,182 20	71,980 42	71,998 78	72,775 75	74,249 64	75,176 66	76,787 97
Law Department	3,970 45	5,197 44	5,189 88	5,192 65	5,632 35	5,038 59	4,980 89	5,046 01	4,995 00	4,963 17
Overseers of the Poor Dept.	100,841 33	105,379 81	106,373 80	103,983 80	104,845 15	106,154 82	106,629 67	96,747 36	99,784 56	82,125 38
Park Department	222,475 05	256,490 43	211,783 90	217,188 89	175,065 82	165,856 05	226,104 06	157,184 66	81,635 19	55,968 54
Plumbers' Examiners' Dept.	153 81	101 05	116 40	111 50	98 75	115 00	115 00	.....	86 00	87 80
Police Department	110,784 22	110,111 14	113,550 42	116,762 59	116,998 35	123,774 68	128,458 58	131,251 70	134,968 00	143,271 60
Public Library	21,064 83	18,493 00	19,823 36	20,078 38	21,224 67	20,267 46	20,622 00	47,676 75	21,348 10	20,861 81
Public Property	154,289 89	176,264 31	222,216 56	258,628 93	332,503 41	167,857 33	201,949 94	123,694 74	214,818 40	214,207 54
School Department	258,766 08	272,481 50	282,400 45	295,673 51	335,372 89	357,691 51	368,233 67	374,024 76	376,974 59	400,084 44
Sealer of Weights and Measures	1,491 29	1,570 52	1,619 73	1,598 46	1,644 02	1,694 97	1,963 73	2,772 22	2,477 11	2,274 77
Sewer Department	87,553 59	106,688 27	64,231 45	52,828 90	84,996 28	108,581 11	105,215 71	87,001 99	95,649 94	122,357 32
Sinking Fund	106,940 00	93,765 00	104,725 00	111,937 50	118,750 00	133,824 00	137,643 50	136,300 16	156,516 42	157,397 58
State Aid	23,159 91	23,209 03	23,491 36	28,751 62	27,218 27	25,413 88	25,410 73	25,493 24	24,993 30	25,657 32
Stationery and Printing	2,843 14	2,939 79	2,847 32	2,869 03	2,983 88	3,021 32	3,199 56	.....	.....	.....
Street Dept. (Roads and Bridges)	259,953 37	323,912 86	412,986 18	249,167 53	326,637 84	373,083 10	509,593 38	551,159 13	422,889 14	749,807 95
Treasury Department	13,471 50	13,995 46	14,415 54	14,282 77	14,699 53	15,478 14	15,596 05	15,378 85	14,943 23	16,410 63
Water Works Department	758,054 81	1,045,529 76	794,197 98	634,583 00	367,048 88	353,607 18	367,545 83	356,468 85	349,520 85	374,638 01
Taxes: — Abatements	19,427 40	17,922 54	22,081 73	27,566 98	35,317 61	33,005 90	24,390 38	33,047 28	41,525 33	55,368 54
Armory	.....	.....	.....	.....	.....	.....	.....	4,154 46	9,766 68	10,445 68
County	73,887 84	78,321 11	73,887 84	79,914 80	87,085 65	85,997 56	100,429 89	100,184 86	104,400 56	109,201 21
Grade Crossings	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,977 69
Metropolitan Park	.....	.....	.....	.....	.....	.....	.....	96,478 96	34,541 40	38,064 53
Metropolitan Sewer	61,886 21	.....	137,297 30	56,818 94	74,763 08	73,018 92	72,344 93	78,252 17	79,836 65	86,891 58
National Bank	7,136 92	6,632 77	7,995 91	7,459 91	7,681 26	7,167 54	6,935 25	7,802 80	6,740 92	6,650 66
State	46,800 00	54,600 00	54,600 00	48,195 00	48,195 00	48,195 00	55,790 00	47,820 00	79,700 00	80,775 00
Total	$2,729,717 48	$3,131,115 43	$3,075,103 20	$2,739,688 33	$2,712,598 25	$2,668,431 58	$2,950,311 22	$2,988,636 86	$2,901,892 38	$3,310,631 90

COMPARATIVE STATEMENT BY DECADES FROM 1855 TO 1900.

	1855.	1865.	1875.	1885.	1895.	1900.
Population....	20,637	29,112	47,838	59,660	81,643	91,886
Valuation.....	$15,437,100 00	$26,085,909 00	$66,623,014 00	$55,346,555 00	$80,911,060 00	$94,465,659 30
City Tax.....	100,604 53	267,708 60	1,060,396 52	804,800 00	1,103,455 30	1,395,452 98
County Tax...	10,137 78	18,280 99	37,580 73	29,381 54	73,887 84	85,997 56
State Tax.....	5,190 00	118,487 00	58,880 00	44,835 00	46,800 00	48,195 00
Tax rate per $1,000.....	7 10	15 00	17 00	15 50	15 70	16 90
Total Expenditures.....	173,533 58	536,911 82	2,605,267 74	2,354,298 69	3,686,702 54	3,371,183 99
City Debt. ...	146,600 00	833,092 00	4,106,843 21	2,361,396 50	3,913,634 23	3,592,904 00
Expenditures by Depts:—						
Bridges.....	890 31	9,007 77	39,068 39	11,829 77	16,297 33	20,179 38
Cemeteries..	6,553 67	16,742 29	19,438 66	80,399 22	16,999 40	21,603 34
Fire Dept...	9,623 70	21,958 74	89,949 99	59,341 15	104,898 59	90,362 64
Lighting Sts.	2,987 32	9,062 24	20,919 04	32,269 07	69,926 61	71,998 78
PauperDept	8,520 41	21,481 52	79,719 54	56,338 24	100,841 33	106,154 82
Police Dept.	4,499 56	22,833 14	71,093 35	78,357 73	110,784 22	123,774 68
PublicLibr'y	....	1,111 77	6,040 04	6,643 51	21,034 83	20,267 46
Schools.....	32,169 16	81,842 47	258,9[illegible]5 15	227,511 77	362,353 79	500,540 53
Sewers.....	4,610 68	3,683 07	135,432 28	40,945 40	149,459 89	108,581 11
Streets.....	14,554 73	35,638 38	155,476 90	148,088 65	252,154 62	279,497 94
WaterWorks	.....	20,327 79	234,431 03	485,691 04	758,054 81	353,607 18

SCHEDULE OF CITY PROPERTY

AS FURNISHED BY

EXECUTIVE BOARDS AND HEADS OF DEPARTMENTS

IN

1904

PUBLIC PROPERTY DEPARTMENT.

CITY BUILDINGS.

	Feet of Land.	Purchase of Land.	Erection of Building.	Valuation of Land.	Valuation of Building.	Valuation of Furniture.
City Hall.....	47,878	1888	1888	$72,000	$200,800	$29,800
Brattle Sq. Bldg.	16,153	1873	1874	16,000	62,000	2,500
Central Sq. Bldg.	13,028	1872	1873	10,500	50,000	2,436
Station 3.....	4,220	1862	1870	2,100	20,000	800
Station 4.....	6,316	1872	1873	3,700	5,300	300
				$104,300	$338,100	$35,836

Voting booth, corner Cambridge and Hampshire Sts.	$500 00	
Portable voting booth, junction Sherman and Garden Sts.	200 00	
Voting compartments and fixtures (380) . . .	1,900 00	
		$2,600 00

OLD MATERIAL IN STORE HOUSE.

Plumbers' material	$100 00	
Old doors	10 00	
Davidson steam pump (at R. M. T. S.) . . .	100 00	
		$210 00

RIFLE RANGE.

Buildings and equipment	$1,000 00

POLICE DEPARTMENT.

PERSONAL PROPERTY.

210	badges	$150 00	1	police van . . .	$300 00
120	belts	137 50	3	patrol wagons . .	1,000 00
120	short billies . . .	60 00	3	police signal systems .	12,000 00
6	bedsteads . . .	36 00	115	revolvers . . .	480 00
5	book cases . . .	40 00		Ropes and stakes . .	6 00
	Bedding and blankets .	50 00	3	robes, carriage . .	15 00
1	buggy	150 00	1	rogues' gallery . .	150 00
5	clocks	30 00	2	safes	200 00
2	bureaus . . .	3 00	8	spittoons . . .	2 00
75	chairs	95 00	1	sleigh	25 00
1	carpet	8 00	1	stove	8 00
	Letter press and stand	10 00	2	straps and weight .	1 00
200	copies police rules .	40 00	1	telephone line . . .	300 00
15	desks	450 00	3	thermometers . .	2 00
1	easy chair "Matron's"	10 00	6	tables	12 00
5	horses	700 00	40	tin dippers . . .	4 00
6	harnesses . . .	180 00	1	typewriter and desk .	140 00
4	halters	1 00	2	umbrella stands . .	2 00
1	hat rack . . .	3 00	1	police van, old . .	25 00
10	ink stands . . .	5 00	8	waste baskets . .	3 50
50	lanterns . . .	37 50	4	water coolers . .	30 00
8	mirrors . . .	16 00		Operating table and chair	37 50
3	maps	15 00	3	medicine cabinets .	75 00
10	rugs	30 00	2	wardrobes . . .	15 00
12	handcuffs, pairs . .	36 00	2	wagon jacks . .	2 00
					$17,128 00

FIRE DEPARTMENT.

REAL ESTATE.

Buildings.	Location.	Land Purchased	Erection of Building.	Land, Sq. Feet.	Assessed Value.	
					Land.	Building.
Engine House No. 1 Ladder House No. 1	108 Mt. Auburn St. Eliot Square.....			In City	building	schedule.
Engine House No. 2 Ladder House No. 3	384-394 Mass. Av.	Owned by City.	1893	10,000	$8,000	$26,000
Engine House No. 3	35 Third St.....	1895	1895	10,100	5,500	17,500
Engine House No. 4	2029 Mass. Av.....	1896	1896	9,532	6,000	23,000
Engine House No. 5	Inman Square.....	1874	1874	6,000	5,000	10,000
Engine House No. 6	176 River St.....	1890	1890-1891	4,994	2,500	12,000
Engine House No. 7	350 Main St.....	Owned by City.	1894-1895	9,400	7,300	12,000
Chemical Engine House No. 1	5 Western Ave.....			In City	building	schedule.
Chemical Engine House No. 2	167 Lexington Av..	1893	1894	15,262	4,000	16,000
Ladder House No. 2	276 Portland St.....	Owned by City.	1887	11,931	3,000	12,000
Engine House No. 8	Junction of Sherman and Garden St.	1903	.....	10,380	2,500	30,000
					$43,800	$158,500

PERSONAL PROPERTY.

ESTIMATED VALUE OF

Apparatus, hose, etc.	$61,000 00	
Bedding and furniture	3,700 00	
Hardware and tools	700 00	
Horses and harnesses	10,200 00	
Miscellaneous	1,000 00	
		$76,600 00

FIRE ALARM AND POLICE TELEGRAPH.

ELECTRICAL DEPARTMENT, WIRE ACCOUNT.

EQUIPMENT.

Fire Alarm apparatus and machinery	$11,300 00	
Fire Alarm and Police Telegraph Circuits	5,200 00	
101 Fire Alarm boxes	6,060 00	
Fire Alarm reserve apparatus	550 00	
Police Signal apparatus and machinery	3,000 00	
80 Police boxes	10,000 00	
Police Signal reserve apparatus	150 00	
Tes ing instruments	450 00	
Tools	500 00	
Furnishings at Fire Alarm Headquarters	400 00	
Stock on hand	1,275 00	
Old and disused apparatus	300 00	
Horses, wagons and harnesses	450 00	
Building in Belmont school yard	400 00	
		$40,035 00

HEALTH DEPARTMENT.

REAL ESTATE.

Number.	Street.	Houses.	Sheds.	Value of Buildings.	Value of Land.	Total Value.	Area sq. feet.	Remarks.
59	Reservoir	1	....	$3,600	$8,300	$11,900	16,624	Taken by Board of Health, Nov. 2, 1899
47	New	1	1	600	600	1,200	10,800	" " " " " Nov. 21, 1901
51	New	2	3	800	900	1,700	13,980	" " " " " Oct. 25, 1901
								" " " " " Mch. 24, 1902
67	New	1	2	1,000	300	1,300	6,140	" " " " " Feb 8, and Mch. 24, 1902
				$6,000	$10,100	$16,100		

PERSONAL PROPERTY.

Laboratory furnishings		$268 00	
Office furniture: —			
3 desks	$115 00		
1 revolving book case . . .	10 00		
4 cabinets	19 00		
12 letter files	6 00		
	———	150 00	
Dictionary		5 00	
Stationery and sundries . . .		20 00	
Typewriter		100 00	
3 atlases		50 00	
Horse		165 00	
1 ambulance		585 00	
1 Beverly wagon		175 00	
1 van		100 00	
3 sets of harness		125 00	
Blankets and horse covers . . .		20 00	
16 disinfecting lamps		100 00	
		———	$1,863 00
At Diphtheria Hospital: —			
Medical and surgical supplies . .		$203 57	
Furnishings and general supplies .		1,153 18	
		———	1,356 75
At Small-pox Hospital: —			
Furnishings, clothing and general supplies			1,517 99
Total			$4,737 74

INSPECTOR OF MILK AND VINEGAR DEPARTMENT.

PERSONAL PROPERTY.

15 platinum dishes	$225 00	
1 cream seal	7 50	
1 drying oven	6 00	
1 Zeiss Refractometer	75 00	
Chemicals and glassware	25 00	
Water bath	22 00	
Electric Centrifuge	60 00	
Polariscope	55 00	
Analytical balance and weights	60 00	
Muffle furnace	5 00	
Busner stand	15 00	
Office furniture	50 00	
Discarded apparatus	20 00	
Total		$625 50

CAMBRIDGE CEMETERY.

37.64 acres of land	$60,000 00	
One house	2,500 00	
Personal property	2,657 72	
Total		$65,157 72

SEALER OF WEIGHTS AND MEASURES DEPARTMENT.

INVENTORY OF PROPERTY.

Standards Furnished by Commonwealth.

1 balance, 5 grains to 100 lbs.
1 set (5) avoirdupois weights, 50, 25, 20, 10, 5 lbs.
1 set (11) avoirdupois weights, 4 lbs. to 1-16 oz.
1 kilogramme in case.
1 steel meter in case.
1 brass yard measure.
1 set (5) iron dry measures, ½ bushel to 1 quart.
1 set (6) iron liquid measures, 1 gallon to 1 gill.

Office furniture	$200 00
1 bay horse	100 00
1 express wagon	100 00
1 light wagon	75 00
1 pung	23 00
2 harnesses	70 00
1 plush robe	1 00
1 stable blanket	2 00
1 rain blanket	2 00
1 woolen blanket	5 00
1 halter	75
1 hitch weight	50
1 wagon scale at Lechmere Square	400 00
1 wagon scale at Union Square	350 00
1 platform scale, 1-2 lb. to 2,500 lbs.	75 00

1 folding platform scale, 1–4 lb. to 600 lbs.	$30 00	
1 spring scale, 1 lb. to 125 lbs.	1 00	
1 balance, 1–10 milligramme to 500 grammes	35 00	
1 balance, 1–50 grain to 8 oz.	15 00	
1 sealers' balance, 1 grain to 8 lbs.	50 00	
2 sealers' trip scales (not used)	5 00	
2 sets avoirdupois weights (19), 4 lbs. to 1–8 oz.	10 00	
1 set troy weights (9), 16 oz. to 1–8 oz.	3 00	
1 set metric weights (13), 1 kilo to 1 gramme	5 00	
5 boxes miscellaneous weights (not standardized)	10 00	
1 set iron weights (3), 25, 10, 5 lbs.	5 00	
40 50–lb. weights	100 00	
3 glass graduates	1 00	
1 set copper dry measures (5), 1–2 bushel to 1 quart	45 00	
1 set brass dry measures (3), 1 quart to 1–2 pint	5 00	
2 sets copper liquid measures (14), 1 gallon to 1 gill	30 00	
1 steel surveyor's tape	10 00	
1 iron truck	5 00	
Miscellaneous tools	50 00	
1 branding furnace	5 00	
1 set brands	3 00	
2 set weights of precision	27 00	
		$1,854 25

CITY HOME ESTATE.

Thirty-two (32) acres land bought Aug. 7, 1849.

Present City Home completed and placed under the care of the Overseers of the Poor, April 3, 1851.

Land cost	$12,000 00	
City Home cost	32,970 69	
Fences, furniture, etc., cost	3,000 00	
Total	$47,970 69	
Hospital cottage on City Home grounds built in 1886, moved and rebuilt in 1901, cost	$2,800 00	
Two-story brick building erected 1888 cost	5,600 00	
Land situated in Cambridge	14 242–1,000 acres	
" " " Somerville	7 954–1,000 "	
" " " Arlington	100–1,000 "	
Lands (salable) on plan of April 10, 1884: —		
30 lots of 5,000 feet each (in Somerville)	3 443–1,000 "	
Total acres of land	25 739–1,000 "	

About seven acres of City Home land lying south of Broadway in West Somerville have been sold for house lots. The remaining lots (30) contain 150,000 square feet, and have been held at a valuation of four cents per square foot, but at the present time are assessed for about ten cents.

The valuation of the City Home real estate by the assessors is: —

Land in Cambridge	$21,000 00	
Buildings in Cambridge	25,000 00	
Land in Somerville	32,200 00	
Buildings in Somerville	3,200 00	
Land in Arlington	300 00	
Total		$81,700 00

INVENTORY

of personal property at City Home, December 1, 1904: —

Book-keeping account books, stationery, etc.	$100 00	
Drugs, medicines and hospital supplies	300 00	
Dry goods, clothing, bedding, etc.	3,800 00	
Farm and stable: 2 horses, 23 pigs, 150 fowls, tools, 5 harnesses, 5 wagons, fertilizers, produce, 3 carriages, 2 sleighs, etc.	4,250 00	
Fuel	1,500 00	
House supplies, furniture, carpets, etc.	2,500 00	
Ledge: steam boiler, steam drill and tools	1,000 00	
Offal Dept.: 20 wagons, 20 pungs, 22 horses, 20 harnesses, etc.	6,400 00	
Outside aid: 2 delivery wagons, groceries, etc.	340 00	
Provisions: groceries and spices	200 00	
		$20,390 00

INVENTORY

of personal property at Overseer's office, Central Square Building, December 1, 1904: —

Office furniture, filing cases, book-cases, typewriter, books, stationery, etc.	$620 00	
City Physician's office: instruments, microscope, operating table, furniture, medicine, etc.	425 00	
Coal shed on Norfolk Street	400 00	
Sixty tons stove coal	480 00	
		$1,925 00

ENGINEERING DEPARTMENT.

PERSONAL PROPERTY.

6 books, at $3 each	$18 00	
4 volumes engineering papers, at $5 each	20 00	
5 logarithm books, at $1 each	5 00	
1 pantograph	10 00	
2 planimeters, at $20 each	40 00	
1 neostyle	5 00	
2 numbering machines, at $5 each	10 00	
1 typewriter	25 00	
Drawing instruments, pens, compasses, etc.	100 00	
Drawing materials and paper	50 00	
Wye level	50 00	
Dumpy level ($40), Hand level ($5)	45 00	
2 transits, at $100 each	200 00	
Level, lineand sounding rods	45 00	
12 tapes	50 00	
Testing pans, molds, etc.	10 00	
Electric motor	10 00	
Furniture in office	300 00	
Photographic outfit	50 00	
Rubber boots	7 00	
		$1,050 00

8,785 plans — Estimated value, $10 each	$87,850 00

SEWER DEPARTMENT.

REAL ESTATE.

Location.	Buildings.	Erection of Buildings.	Purchase of Land.	Feet of Land.	Assessors' Valuation of Land.	Assessors' Valuation of Buildings.	Total.
Pilgrim Street...	Stable....	1887					
" "	Sheds.....	1881 1884					
" "	House...	1892 1890	1868	23,707	$5,900 00	$4,100 00	$10,000 00

SEWERS.

123.4 miles of sewers, which have cost to construct $1,703,752 55

PERSONAL PROPERTY.

1 buggy	$100 00	
4 carts, steel, sanitary	800 00	
1 cart, sanitary	50 00	
2 carts, tip	100 00	
10 clocks, register	100 00	
1 dray	50 00	
1 derrick, 4-leg	10 00	
1 engine, hoisting	100 00	
10 harnesses, set of, and horse clothing	176 00	
5 horses	625 00	
2 patterns	10 00	
Pile driver and hammers	100 00	
4 pumps — 1 steam and 3 hand	125 00	
Rain gauges, standard and self-recording	75 00	
1 roller, horse, street	100 00	
Rubber goods, miscellaneous	320 00	
1 sewer cleaning machine, " Healy "	500 00	
3 sleighs	140 00	
Stock on hand — brick, castings, lumber and pipe	2,146 00	
Tools and implements, miscellaneous	2,453 00	
Tool-houses, etc.	120 00	
1 Trench machine, " Carson "	1,000 00	
1 wagon, canopy top	100 00	
2 wagons	150 00	
		$9,450 00

STREET DEPARTMENT.

REAL ESTATE.

Location.	Buildings.	Erection of Buildings.	Purchase of Land.	Feet or Acres of Land.	Valuation of Land.	Valuation of Buildings.
Raymond St. ...	City Yard and Stable, stable, sheds, scales, etc.	1897	1896	272,670	$27,000	$27,000
Hampshire St...	City Stable, sheds and scales, including old police station.....	1885	....	72,661	30,000	16,000
E. S. Norfolk St..	Yard and pound.....	....	....	39,600	12,000	.....
River St.....	Yard and wharf.....	....	....	.....	.....	17,000
Acton, Mass.....	Land, gravel bank.....	....	1896	41,546	*7,000	.....
					$76,000	$60,000
	Total valuation of Real Estate.....					$136,000

*Assessed valuation about $1,000.00.

PERSONAL PROPERTY.

72 horses	$6,500 00	
51 watering carts	12,500 00	
48 single and double carts	4,200 00	
83 sets harness	2,000 00	
Miscellaneous buggies, sleighs, pungs, plows, wagons, etc.	2,500 00	
5 bicycles	150 00	
4 steam rollers	7,000 00	
1 two-horse section roller	125 00	
Miscellaneous tools, road machines, pick-up sweepers, scrapers, waste barrels, push carts, etc.	8,200 00	
Stone crushing plant, Raymond Street	5,500 00	
Stone crushing plant, Hampshire Street	6,000 00	
8 Shadbolt ash carts	2,500 00	
2 Watson carts	350 00	
Miscellaneous lumber, iron, oils, etc.	1,500 00	
14.6 feet straight edgestone	8 03	
34.5 feet circle edgestone	25 18	
50,000 granite paving blocks (seconds)	1,250 00	
80 square yards gutter stone	76 00	
700 sidewalk bricks	9 10	
505 tons crushed stone	497 43	
723.5 tons field stone	542 63	
25 tons coal	115 00	
2,500 vitrified bricks	762 50	
33.5 feet granite flagging	25 46	
17 barrels cement	17 00	
		$62,353 33

ELECTRICAL DEPARTMENT.

STREET LIGHTING.

Equipment.

287 lamp posts	$2,960 00	
Office furniture	275 00	
Stock on hand (old and disused)	385 00	
Horse, carriage and harness	300 00	
		$3,920 00

BRIDGE DEPARTMENT.

REAL ESTATE.

Bridge.	Property.	Value.	Total.
Craigie	Drawtender's house	$1,000 00	
"	Engine house and engine	500 00	
"	Two small houses on bridge	400 00	
Harvard	Drawtender's office	600 00	
Prison Point	Drawtender's house	1,000 00	
Brookline Street	Drawtender's office	500 00	
River Street	Drawtender's office	150 00	
North Harvard Street.	Drawtender's office	75 00	
Western Avenue	Drawtender's office	50 00	$4,275 00

PERSONAL PROPERTY.

Canal (Craigie) Bridge	$105 28	
Harvard Bridge	201 89	
Prison Point Bridge	42 10	
West Boston Bridge	97 02	
Brookline Street Bridge	9 75	
River Street Bridge	17 50	
North Harvard Bridge	38 99	
Western Avenue Bridge	5 60	
		$518 13

WATER WORKS.

Street.	Buildings.	Date of Purchase.	Feet or Acres of Land.	Valuation of Land.	Valuation of Buildings.	Valuation of personal.
Adams Place		1890	160,597	$1,400		
"		1890	419,222	10,000		
S. S. Auburn	1 house & sheds.				$4,000	
" "	Stable (brick)				7,000	
" "	Shop (brick)	1868	(Lot 12) 33,847	6,600	5,500	$14,270
" Concord ave	1 house (brick)					
" "	Shop and stable.		27.33 a.	16,700	4,000	325
" "		1890	$\frac{5}{8}$ a. (gravel pit)	300		
" "		1856	397,417	3,000		
" "		1886	99,000	1,000		
" " nr. Adams street		1891	10,805	500		
S. S. Concord ave		1886	11,220	100		
" " cor. Huron ave.		1882	32,425	700		
S. S. Concord ave		1890	219,400	2,200		
" "		1890	62,000 (G.H.lot)	1,200		
Concord ave		1890	43,560	400		
Near Concord ave. and Railroad		1892	$4\frac{1}{2}$ a.	5,000		
S. S. Concord ave		1890	24,100	300		
" "		1889	294,000	3,000		
" " between Fresh Pond and Watertown Branch of F. R. R.		1886	(Tudor Park) 57,312	1,500		
E. S. Cushing		1886	41,053	800		
" " cor. Woodlawn ave., north end		1888	95,482	2,000		
Cushing, corner Woodlawn ave.		1888	639,550	4,000		
E. S. Cushing, cor. Woodlawn ave., south end		1888	(Tri'ngular lot on St)	No value		
Fresh Pond Lane			211,835	20,000		
" " "		1890	$11\frac{1}{4}$ a.	11,000		
R. Fresh Pond Lane		1886	364,608	3,500		
" " "		1886	239,541	5,000		
Near Fresh Pond Laneand Adams Place		1886	110,891	1,000		
Fresh Pond Lane cor Huron ave.		1894	46,479	6,900		
Rear of Grove		1886	272,800	2,000		
" " "		1888	150,000	1,500		
" " "		1890	519,000	6,000		
Holworthy		1886	for ext'n St 18,480	No value		(in G.H.)
S. S. Huron avenue (part lot)		1886	22,348	700		5
S. S. Huron avenue (part lot)		1888	91,112	500		
Huron ave		1890	190,500	4,300		
" "		1890	$1\frac{3}{4}$ a.	1,000		
Kingsley Park		1867 1886	309,336	8,000		
Lake View ave., cor. Vassal lane			(Lot 34) 15,371	2,000		
E. S. Lake View avenue			(Lot 32) 12,000	1,200		
E. S Lake View avenue	House		(Lot 32) 9,000	1,000	7,000	
W. S Lake View avenue			(Lot 37) 9,180	1,000		

WATER WORKS — Continued.

Street.	Buildings.	Date of Purchase.	Feet or Acres of Land.	Valuation of Land.	Valuation of Buildings.	Valuation of personal.
E. S. Lake View avenue	.....	.....	(Lot 31) 12,000	$1,200	.....	.....
E. S. Lexington ave., cor Worthington	House and stable..	.....	(Lot 63) 14,437	2,900	$7,300	.....
Massachusetts ave..	In City Hall.....	.....	.....	.....	.....	offi'e furn $1,000
Vassal Lane.....	.....	.....	(Lot 33) 10,795	1,000	.....	.....
E. S. Woodlawn ave.	.....	1886	91,040	2,000	.....	.....
Woodlawn ave.....	.....	1886	24,096	1,900	.....	.....
E. S. Woodlawn ave.	.....	1886	107,619	8,000	.....	.....
N. S. Woodlawn ave.	.....	1887	25,216	1 200	.....	.....
E. S. Woodlawn ave.	.....	1886	15,735	800	.....	....
Woodlawn ave.....	.....	1886	26,989	1,600	.....	.....
E. S. Woodlawn ave.	.....	.....	.....	.....	.....	....
	Woodlawn ave. 9,910 29,471 22,100 4,000 7,060 7,333 14,328 12,280 106,422 Cushing 15,611 11,303					
	26,914	.....	133,336	13,700	.....	....
Worthington.....	Pumping Station and machinery.	1856	.....	.....	50,000	pumping pl't, tools $200,000
	Dwelling-house.	1873	90,414	18,000	2,000	
E. S. Worthington, cor. Lake View avenue	.....	1856 1883	(Lot 36) 5,294	800	.....	.....
Nursery stock at Fresh Pond	.....	.....	.....	.....	.....	5,000
Total.....	.....	.....	.....	$190,400	$86,800	$220,600

REAL ESTATE AND PERSONAL PROPERTY AT HOBBS BROOK.

Value of land	$240,563 30	
Gate houses	6,710 40	
Keeper's house and stable	5,000 00	
Dams	132,297 73	
Personal property	63 00	
		$384,634 43

REAL ESTATE AND PERSONAL PROPERTY AT PAYSON PARK.

Value of land	$48,168 55	
Tool house	300 00	
Reservoir	287,000 00	
Personal property	30 00	
		$335,498 55

WATER WORKS — Concluded.

REAL ESTATE AND PERSONAL PROPERTY AT STONY BROOK.

Value of land	$138,080 73	
Keeper's house and stable	3,000 00	
Dam	289,000 00	
Personal property	396 00	
		$430,476 73

VALUATION OF

Main pipe	$652,401 45	
Supplies	223,317 58	
Boxes	13,367 29	
Fountains	5,600 00	
Gates	38,640 16	
Hydrants	46,437 00	
Ice water fountains	1,900 00	
Meters	38,100 45	
Standpipes	1,490 80	
Payson Park line	198,000 00	
Stony Brook line	237,600 00	
		$1,456,854 73

PUBLIC PROPERTY DEPARTMENT.

SCHOOLHOUSES.

	Feet of Land.	Purchase of Land.	Erection of Building.	Valuation of Land.	Valuation of Building.	Valuation of Furniture.
Agassiz	19,689	1874	1875	$8,000	$20,000	$1,215
Boardman	10,018	1866	1868	4,000	13,000	1,290
Bridge	4,646	1836	1836	1,400	500	.....
Corlett	10,000	1880	1880 Purchased.	1,200	3,000	195
Cushing	14,787	1880	1880 Purchased.	1,500	3,000	136
Dana	14,317	1847	1848	4,300	.....	.....
Ellis	25,700	1897	1898	6,000	48,000	2,993
Felton	15,090	1847	1848	4,500	6,000	200
Gannett	15,434	1876	1886	3,000	12,000	430
Gannett (old)	.....	1864	1865	2,600	2,000	395
Wellington	27,673	1875	1884	5,700	50,000	2,240
Gore	9,900	1871	1871	4,000	50,000	825
Harvard	20,494	1870	1871-1899	12,000	65,000	3,769
High	74,366	....	1891	40,900	220,000	9,220
Holmes	11,182	1870	1870	5,000	5,500	275
Kelley	25,230	1900	1902	9,600	60,900	4,380
Lassell	10,000	1880	1880	3,000	8,000	272
Latin	79,579	1894	1897	43,800	225,000	27,150
Lowell	12,033	1883	1883	3,600	5 500	402
Merrill	37,828	1864	1864	19,000	45,000	1,425
Morse	25.650	1889	1890	7,000	73,000	2,040
Otis	8,270	1857	1859	4,000	20,000	930
Parker	12,319	....	1893	7,000	15,000	710
Peabody	21,813	1887	1888-1898	9,800	68,000	3,340
Putnam	14,400	1896	1889	9,800	64,500	2,550
Reed	12,000	1868	1868	1,200	4,000	310
Rindge M. T.	81,128	....	1887	44,000	62,000	9,000
Riverside	11,198	1868	1868	3,000	5,000	330
Roberts	16,400	1898	1898	12,000	48,000	3,003
Russell	33,073	1895	1896	6,000	40,000	2,440
Sargent	9,995	1838	1838	5,000	3,000	255
Shepard	14,755	1855	1856-1873	11,000	26,000	1,047
Sleeper	21,284	1894	1894	5,000	24,000	1,190
Stearns	10,050	1812	1841-1843	5,000	3,000	322
Tarbell	19,500	1878	1882	4,900	7,000	355
Taylor	23,592	1894	1895	6,000	36,000	1,720
Thorndike	10,027	1860	1860-1875	4,000	30,000	1,676
Washington	16,000	1900	1901	12,800	80,000	3,550
Webster	25,839	1866	1873-1885	9,000	50,000	3,350
Willard.	20,079	1869	1870	7,000	25,000	1,350
Wyman	14,347	1871	1871-1886	4,500	5,000	555
Fletcher	18,360	1902	1903	12,000	44,000	4,400
Houghton	20,210	1904	1904-1905	9,060	.....	.....
				$382,160	$1,574,900	$101,535

SCHOOL DEPARTMENT.

PERSONAL PROPERTY.

Text books	$25,059 65	
Desks, reference and library books	1,544 41	
Apparatus and furnishings	22,737 64	
Stock on hand July 1, 1904	6,638 27	
		$55,979 97

PUBLIC LIBRARY.

REAL AND PERSONAL ESTATE.

141,666 feet of land, as per assessors' books	$85,000 00	
Library building, as per assessors' books	145,000, 00	
		$230,000 00
Estimated valuation of books in the library	$66,000 00	
Estimated valuation of interior furnishings	9,500 00	
Estimated valuation of books in the East Cambridge Branch Library	1,900 00	
Estimated valuation of furnishings in the East Cambridge Branch Library	400 00	
		77,800 00
		$307,800 00

The lot (about 590 x 240 feet) occupied by the library building is bounded by Broadway, Irving, Cambridge and Trowbridge Streets. The land and building were presented to the City of Cambridge by Mr. Frederick H. Rindge, in June, 1889, on the completion of the building, which was begun in the autumn of 1887. In 1894 a wing was added to the building at a cost to the City of $20,000, and in 1902 an addition to the stack was made at an expense of about $30,000.

The Trustees of the Library also hold the following funds, invested in the bonds of the City of Cambridge: —

Fay fund, school-house loan bond, No. 254, due 1st August, 1918, at 3½ per cent.		$1,000 00
Cummings' fund, water loan bond, No. 38, due 1st July, 1909, 4 per cent.		2,000 00
Citizens' subscription fund, invested as follows: —		
Sewer loan bond, No. 7, due 1st May, 1910, 4 per cent.	$5,000 00	
Sewer loan bond, No. 47, due 1st October, 1925, 4 per cent.	500 00	
		5,500 00
William E. Saunders fund, invested as follows: —		
Building loan bond, No. 544, due 1st April, 1923. 3½ per cent.	3,000 00	
Street loan bond, No. 545, due 1st April, 1923, 3½ per cent.	4,000 00	
Deposited in Cambridgeport Savings Bank	369 09	
		7,369 09
		$15,869 09

PARK DEPARTMENT.

LAND.

	SQUARE FEET.	VALUE.
River Parkway: —		
Section A	395,174	$395,174 00
" B	859,000	1,718,000 00
" C	583,082	145,770 50
" D	1,668,709	188,045 21
" E	77,101	61,045 72
" F	605,084	117,537 65
" G	699,948	419,968 80
" H	62,858	13,135 30
Cambridge Field	528,154	206,200 13
Rindge Field and Nursery	501,729	150,518 70
East Cambridge Embankment	363,825	132,730 28
Commons and Squares: —		
Garden St., Massachusetts Ave. and Waterhouse St.	370,785	370,000 00
Massachusetts Ave., Kirkland and Cambridge Sts.	33,357	66,000 00
Massachusetts Avenue and Peabody Street	23,074	46,000 00
Massachusetts Avenue and Holmes Place	20,956	42,000 00
Massachusetts Avenue and Waterhouse Street	13,181	13,000 00
Washington Elm	886	886 00
Broadway Common	107,181	54,000 00
Fort Washington	42,123	8,000 00
Dana Square	33,531	12,000 00
Hastings Square	30,000	9,000 00
Winthrop Square (approx.)	11,611	23,000 00
Arsenal Square	3,189	3,100 00
Pleasant and River Streets	1,569	1,200 00
Pleasant Street and Western Avenue	1,372	1,000 00
Massachusetts Avenue and Arrow Street	872	1,700 00
Total		$4,199,012 29
Buildings		63,000 00
Equipment		2,850 00

EXEMPTED PROPERTY

The following is a schedule of property used for religious, charitable, and educational purposes, and exempt from taxation by law, including property owned by the county of Middlesex not including that owned by the City of Cambridge, as shown on the Assessors' Books, November 30, 1904:—

Ward One.

Trinity Methodist Episcopal Church: —			
Church, Cambridge, corner Third Street	$25,000 00		
6,500 feet of land	16,300 00		
		$41,300 00	
Massachusetts Baptist Convention, Trustee: —			
Church, Cambridge and Fourth Streets	25,000 00		
6,000 feet of land	11,000 00		
		36,000 00	
Church of the Ascension: —			
Church, Third and Thorndike Streets	5,000 00		
4,800 feet of land	4,000 00		
		9,000 00	
County of Middlesex: —			
Court House, Third, Otis and Thorndike Streets	208,500 00		
Court House, Second, Otis and Thorndike Streets	180,000 00		
59,572 feet of land	60,000 00		
		448,500 00	
Law Library		50,000 00	
Registry of Deeds: —			
Cambridge, Otis, Second and Third Streets	376,000 00		
59,380 feet of land	90,000 00		
		466,000 00	
House of Correction, jail and shops, Thorndike, Third, Spring and Second Streets	425,000 00		
59,880 feet of land	30,000 00		
		455,000 00	
Sacred Heart School Association: —			
St. John's Church, Fourth Street	5,000 00		
7,005 feet of land	4,200 00		
		9,200 00	
St. John's Literary Institute: —			
Halls and stores, Cambridge Street, ⅔ value	20,000 00		
½ of 6,300 feet of land	4,700 00		
Cash assets	2,852 41		
		27,552 41	
			1,542,552 41

Ward Two.

Second Universalist Society: —			
Church, Otis Street	16,000 00		
5,950 feet of land	3,500 00		
		19,500 00	
Church of the Sacred Heart: —			
Church, Sixth, Otis and Seventh Streets	70,000 00		
15,400 feet of land	6,200 00		
		76,200 00	
Sacred Heart School Association: —			
11,000 feet of land on Seventh Street	3,300 00		
Schoolhouse	150,000 00		
		153,300 00	
			249,000 00
Amount carried forward			$1,791,552 41

Amount brought forward . .			$1,791,552 41
	Ward Three.		
Roman Catholic Archbishop of Boston: —			
Building, west side Portland Street .	7,000 00		
3,687 feet of land	1,500 00		
			8,500 00
	Ward Four.		
Broadway Baptist Church: —			
Church, west side Boardman Street .	30,000 00		
11,620 feet of land	8,000 00		
		38,000 00	
Cambridgeport Unitarian Society: —			
Church, north side Austin Street .	18,000 00		
13,116 feet of land	8,000 00		
		26,000 00	
Harvard Street Methodist Episcopal Society: —			
Church, north side Harvard Street .	22,000 00		
10,030 feet of land	8,000 00		
		30,000 00	
St. Paul's African M. E. Church: —			
Church, north side of Hastings Street	7,500 00		
3,186 feet of land	1,400 00		
		8,900 00	
Hope Congregational Church: —			
Church, north side Harvard Street .	8,000 00		
6,000 feet of land	3,000 00		
		11,000 00	
Swedish Evangelical Missionary Church of Cambridge: —			
Church, 146 Hampshire Street . .	7,000 00		
3,879 feet of land	1,600 00		
		8,600 00	
St. Stephen's Baptist Church Buildings, 187–189 Broadway (part value) .	500 00		
2,840 feet of land (part value) . .	1,100 00		
		1,600 00	
St. Mary's Parochial School: —			
Church, west side Norfolk, corner Harvard Street	45,000 00		
Girls' School, south side Harvard Street	60,000 00		
Boys' School, east side Essex Street	18,000 00		
Sisters' Home, 50 and 52 Essex Street	7,000 00		
49,928 feet of land . . .	20,000 00		
Theatre, east side Norfolk Street .	15,000 00		
13,032 feet of land	6,500 00		
Gymnasium, east side Prospect Street	35,000 00		
11,370 feet of land	5,700 00		
House, 121 Norfolk Street . .	7,500 00		
7,500 feet of land	2,300 00		
		222,000 00	
Congregation Beth Israel of Cambridge: —			
East side Columbia, near Market, Synagogue	15,000 00		
8,784 feet of land . . .	2,600 00		
		17,600 00	
			363,700 00
Amount carried forward . .			$2,163,752 41

Amount brought forward . .			$2,163,752 41
	Ward Five.		
Baptist Church, Trustees of funds of: —			
Chapel, Hampshire Street . . .	3,000 00		
2,500 feet of land	800 00		
		3,800 00	
First Evangelical Congregational Society: —			
Church, west side Prospect Street .	40,000 00		
19,513 feet of land	12,000 00		
		52,000 00	
First Free Baptist Church: —			
Church, north side Harvard Street .	9,000 00		
6,250 feet of land	4,700 00		
		13,700 00	
Donald M. Campbell, Trustee for First Free Baptist Church: —			
Church, north side Hampshire Street	3,000 00		
3,851 feet of land	1,600 00		
		4,600 00	
First Universalist Society of Cambridge: —			
Church, east side Inman Street . .	20,000 00		
15,312 feet of land	11,300 00		
		31,300 00	
First Reformed Presbyterian Church, west side Antrim Street . . .	7,500 00		
5,000 feet of land	2,100 00		
		9,600 00	
First United Presbyterian Church: —			
Church, south side Cambridge Street	6,500 00		
9,173 feet of land	4,600 00		
		11,100 00	
Cambridge Young Women's Christian Association: —			
Personal property	11,587 70		
House, 5 Temple Street . . .	3,400 00		
6,069 feet of land	3,600 00		
		18,587 70	
			144,687 70
	Ward Six.		
Immanuel Baptist Church: —			
Church, east side Magazine Street .	25,000 00		
11,250 feet of land	3,000 00		
		28,000 00	
First Swedish Baptist Church of Cambridge: —			
Church (unfinished), 77 Columbia St.	7,000 00		
2,765 feet of land	1,200 00		
		8,200 00	
Grace Methodist Episcopal Church: —			
Church, east side Magazine Street .	15,000 00		
7,750 feet of land	5,000 00		
		20,000 00	
Massachusetts Baptist Convention — Union Baptist Church: —			
Church, 874 Main Street . . .	14,500 00		
3,900 feet of land	3,900 00		
		18,400 00	
Amounts carried forward . . .		$74,600 00	$2,308,440 11

Amounts brought forward . .		$74,600 00	$2,308,440 11
Baptist Home, 80 Chestnut Street, and 308 Brookline Street, one house and stable	11,500 00		
21,300 feet of land	10,000 00		
Personal property	5,407 14		
		26,907 14	
The Lamson House, 322 Brookline Street, one house	5,000 00		
5,000 feet of land	2,000 00		
Personal property	9,529 79		
		16,529 79	
Mount Olive Baptist Church and Willard Welsh, for tax: —			
250 feet of land		100 00	
Mount Olive Baptist Church, south side Front Street, Church . . .	18,000 00		
5,000 feet of land	2,500 00		
		20,500 00	
East End Union Mission: —			
Church, west side Burleigh Street on Rogers' land		6,000 00	
Rush African M. E. Zion Church: —			
Church, south side School Street .	6,000 00		
2,760 feet of land	1,100 00		
		7,100 00	
St. Philip's Church, Episcopal: —			
Church, north side Allston Street .	3,000 00		
4,646 feet of land	1,300 00		
		4,300 00	
Wood Memorial Church, Congregational: —			
Church, west side Columbia, corner Austin Street	30,000 00		
8,933 feet of land	4,700 00		
		34,700 00	
			190,736 93
Ward Seven.			
Cambridge Young Men's Christian Association: —			
Personal property	14,614 91		
New Building, Massachusetts Avenue	127,000 00		
24,145 feet of land	22,000 00		
		163,614 91	
First Baptist Society: —			
Church, Central Square . . .	80,000 00		
21,400 feet of land	20,000 00		
		100,000 00	
First Church of the Evangelical Association of North America: —			
Church, 44 William Street . . .	5,000 00		
6,750 feet of land	2,900 00		
		7,900 00	
Pilgrim Congregational Church: —			
Church, west side Magazine Street .	30,000 00		
12,415 feet of land	9,300 00		
		39,300 00	
Amounts carried forward . . .		$310,814 91	$2,499,177 04

Amounts brought forward . .		$310,814 91	$2,499,177 04
Protestant Episcopal Church, Trustees of Donations to : —			
Church, south side Massachusetts Avenue (St. Peter's) . . .	10,000 00		
9,229 feet of land	9,200 00		
		19,200 00	
Prospect Union Association : —			
Personal property	13,501 56		
Building, 744 Massachusetts Avenue	5,800 00		
11,449 feet of land	20,300 00		
		39,601 56	
Stratton, Chas. F., Allen K. Sweet, and Edwin S Chapin, Trustees : —			
Building, west side Ballard Place .	6,000 00		
4,344 feet of land	1,100 00		
		7,100 00	
			376,716 47
Ward Eight.			
Epworth Methodist Episcopal Church : —			
Church, Massachusetts Avenue .	76,000 00		
11,248 feet of land	11,200 00		
		87,200 00	
Old Cambridge Baptist Society : —			
Church, Massachusetts Avenue and Harvard Street	71,000 00		
34,573 feet of land	100,000 00		
		171,000 00	
St. Paul's Roman Catholic Church : —			
Church, Mount Auburn Street . .	30,000 00		
11,216 feet of land	60,000 00		
		90,000 00	
St. Paul's Catholic School Association : —			
Personal property	4,000 00		
School building . .	59,000 00		
House, Arrow and Mount Auburn Streets . .	8,000 00		
32,900 feet of land	73,200 00		
		144,200 00	
Holy Ghost Hospital for Incurables : —			
Personal property	5,088 53		
Building and house, Cambridge Street	56,000 00		
281,436 feet of land (part in Ward 5)	72,000 00		
		133,088 53	
The Corporation of the New Church Theological School : —			
New chapel	15,000 00		
Personal property	160,756 00		
Two houses and stable, 42–48 Quincy Street	16,000 00		
81,450 feet of land	81,000 00		
		272,756 00	
Amounts carried forward . . .		$898,244 53	$2,875,893 51

Amounts brought forward . .		$898,244 53	$2,875,893 51
President and Fellows of Harvard College: —			
Personal property	13,039,772 03		
Dormitories, chapels, laboratories, museums, lecture rooms and houses, including property in Wards 9 and 10	6,733,000 00		
		19,772,772 03	
Jane Wilson (widow of disabled soldier), House, 9 Elmer Street . . .	900 00		
1,275 feet of land	300 00		
		1,200 00	
Harvard Lampoon Society: —			
Personal property		3,601 68	
			20,675,818 24
Ward Nine.			
The Buckingham School, Buckingham Street: —			
Schoolhouse	6,000 00		
7,600 feet of land	3,400 00		
Personal property	1,570 44		
		10,970 44	
Christ Church, Episcopal, Garden St.: —			
Church and Parish House . . .	22,000 00		
22,701 feet of land	28,000 00		
		50,000 00	
First Parish Church, Unitarian: —			
Church, Massachusetts Avenue .	57,000 00		
14,831 feet of land	43,000 00		
		100,000 00	
Cambridge Social Union: —			
Personal property	2,000 00		
House, No 42 Brattle Street .	5,000 00		
7,030 feet of land	10,500 00		
⅓ value of hall	4,000 00		
⅓ value of 10,000 feet of land . .	5,000 00		
		26,500 00	
Shepard Congregational Society: —			
Church, Garden Street . . .	110,000 00		
34,353 feet of land	34,000 00		
		144,000 00	
St. Peter's Roman Catholic Church: —			
Church, Concord Avenue . . .	45,000 00		
33,700 feet of land	11,000 00		
		56,000 00	
St. Peter's Parish Hall Corporation: —			
Stores and hall, 70 Concord Avenue .	39,500 00		
11,850 feet	3,500 00		
		43,000 00	
Cambridge Hospital: —			
Personal property	291,349 52		
Buildings, Mount Auburn Street .	94,000 00		
Land	143,000 00		
		528,349 52	
Cambridge Home for Aged People: —			
Personal property	95,939 50		
Building, Mount Auburn Street .	60,000 00		
42,975 feet of land	20,000 00		
		175,939 50	
Amounts carried forward . . .		$1,134,759 46	$23,551,711 75

Amounts brought forward . .		$1,134,759 46	$23,551,711 75
Longfellow Memorial Association: —			
Personal property	16,719 82		
Park, south side Brattle Street, 93,618 feet	56,000 00		
		72,719 82	
Episcopal Theological School, Trustees of: —			
Personal property	253,931 54		
Chapel, seminary and dormitories, Brattle and Mason Streets, and Hastings Avenue	356,700 00		
		610,631 54	
Avon Home, Mount Auburn Street: —			
Building	22,000 00		
69,470 feet of land	28,000 00		
Personal property	137,450 15		
		187,450 15	
Radcliffe College: —			
Personal property	515,214 24		
Five houses, laboratory, schoolhouse and gymnasiums, Garden, Brattle, Mason and James Streets, 163,296 feet of land, including Ward 10 property	345,000 00		
		860,214 24	
Metropolitan Park, 29 acres and 397,445 feet		130,500 00	
			2,996,275 21
Ward Ten.			
North Avenue Congregational Society: —			
Church, Massachusetts Avenue . .	32,000 00		
13,430 feet of land	11,600 00		
		43,600 00	
			43,600 00
Ward Eleven.			
Catholic Cemetery, Rindge Avenue, 304,014 feet of land . .		30,000 00	
Third Universalist Society: —			
Church, Massachusetts Avenue . .	30,000 00		
14,880 feet of land	14,800 00		
		44,800 00	
Trustees of Donations to the Protestant Episcopal Church: —			
Church and Chapel, Massachusetts Avenue and Beech Street . .	75,000 00		
21,207 feet of land (cemetery lot included)	21,200 00		
		96,200 00	
Abbott, Edward, Trustee for, west side Beech Street: —			
Lot, 7,965 feet of land . . .		3,900 00	
Amounts carried forward . . .		$174,900 00	$26,591,586 96

Amounts brought forward . .		$174,900 00	$26,591,586 96
North Avenue Baptist Society: —			
Church, Massachusetts Avenue . .	55,000 00		
38,525 feet of land	21,300 00		
		76,300 00	
Roman Catholic Archbishop of Boston: —			
Schoolhouse, south side Rindge Ave .	40,000 00		
39,754 feet of land	8,000 00		
		48,000 00	
Lot, east side Middlesex Street, 1,939 feet		400 00	
Lot, south side Wilson Avenue, 6,214 feet		1,200 00	
Lot, end Wilson Avenue, 2,037 feet .		400 00	
Marist Fathers of Boston, French Roman Catholic Church: —			
Personal property	1,500 00		
Church, north side Harvey Street .	18,000 00		
14,645 feet of land	3,000 00		
Schoolhouse, Harvey Street . .	15,000 00		
12,375 feet of land	1,200 00		
		38,700 00	
Weymouth, Harrison G. O., (disabled soldier): —			
Orchard Street, 4,800 feet of land .		2,200 00	
			342,100 00
Total			$26,933,686 96

REPORT OF THE COMMITTEE ON ACCOUNTS

CAMBRIDGE, December 27, 1904.

The Joint Standing Committee on Accounts for the year 1904, respectfully submits its annual report as required under the provisions of the City Ordinances.

Monthly meetings have been held regularly during the year, and all claims against the City, as approved by the City Auditor, have been duly examined and compared with the records in his office.

The books and accounts have also been examined, and too much credit cannot be given for the accuracy and neatness with which everything is kept.

MICHAEL H. FLYNN,
EDW. A. BARNARD,
GEO. B. CASWELL,
THOMAS P. O'NEIL,
JULIUS MEYERS,

Committee on Accounts.

CITY CLERK'S REPORT OF FEES AND LICENSES

OFFICE OF THE CITY CLERK,

December 1, 1904.

To the Honorable, the City Council of the City of Cambridge: —

The undersigned herewith presents an account of the sums received for fees and licenses during the year ending November 30, 1904.

Auctioneers' Licenses	$42 00
Pool, Bowling Alley and Billiard Licenses	76 00
Wagon and Carriage Licenses	229 00
Intelligence Office Licenses	62 00
Junk Store and Collectors' Licenses	664 00
Fees from Peddlers' Licenses	116 00
Recording Mortgages, Assignments, etc.	589 00
Marriage Certificates	552 50
Certified Copies from Records	132 00
Fees from Dog Licenses	417 00
Fees from Liquor Licenses	59 00
Fees from Fireworks Licenses	106 00
Sundries	19 78
Total	$3,064 28

The foregoing amount has been paid into the City Treasury.

The receipts from Dog Licenses have been $5,341.00. Of this amount, the City Clerk's fee (20 cents for each license issued), amounting to the sum of $417.00 is included in the above list of fees, and the balance, amounting to $4,924.00, has been paid the County Treasurer.

Respectfully submitted,

EDWARD J. BRANDON,
City Clerk.

REPORT OF THE CITY TREASURER

City of Cambridge,
Office of City Treasurer, December 1, 1904.

To the Honorable, the City Council: —

In the following pages I submit a detailed report of the receipts and expenditures of the public funds by the Treasury Department, during the year ending November 30, 1904, including an account of all bonded and temporary loans negotiated in said year; also, a detailed account of official fees received, and reports on the "Cemetery Fund" and the "Sarah E. Russell Fund."

Very respectfully,

WM. W. DALLINGER,
City Treasurer.

CITY OF CAMBRIDGE IN ACCOUNT CURRENT FROM DECEMBER 1, 1903, TO

Dr.

To authorized payments charged to City Accounts:—

Abatements — Taxes	$55,368 54
Assessors' Department:—	
Salaries	13,249 95
General Expenses	2,425 27
Auditing Department:—	
Salaries	3,878 76
General Expenses	353 37
Baths — Park Department	1,663 60
Board of Survey	174 00
Bridges:—	
Boston Bridges:—	
Salaries and Labor	10,633 46
General Expenses	6,144 26
Cambridge Bridge	352,683 17
Paving Harvard Bridge	109 51
Street Department	3,102 77
Celebrations:—	
Fourth of July	1,692 40
Labor Day	400 00
Memorial Day	1,100 00
Cemetery:—	
Salaries	14,851 60
General Expenses	3,061 96
Cemetery Fund	1,895 90
Charles River Dam	28,000 00
City Clerk's Department:—	
Salaries	6,331 45
General Expenses	1,904 34
City Messenger's Department.—	
Salaries	1,542 68
General Expenses	225 40
City Building Account:—	
Salaries	8,537 00
General Expenses	15,408 47
Civil Service Department	238 62
Clerk of Committees Department:—	
Salaries	3,322 00
General Expenses	408 95
Contingent Fund	454 15
City Council Expenses	4,428 00
Collection of Ashes	32,649 50
Damages to Persons and Personal Property	1,487 93
Election Expenses:—	
City Clerk	8,193 68
Registrars of Voters	5,557 17
Superintendent of Buildings	2,273 58
Electrical Department:—	
Street Lighting:—	
Salaries	1,000 00
General Expenses	76,063 73
Wire Account:—	
Salaries	7,172 00
General Expenses	4,876 40
Salary of Night Operator	450 00
Engineering Department:—	
Salaries	8,719 57
General Expenses	956 42
Assessors' Plans	267 62
Fire Department:—	
Salaries	78,407 54
General Expenses	17,997 57
New Engine House — Ward 10	17,520 23
Grade Crossings	3,065 00
Amount carried forward	$810,247 52

Nov. 30, 1904 (inclusive), with Wm. W. Dallinger, City Treasurer.

Cr.

By receipts as follows:—

Assessors' Department—General Expenses	$5 00
Assessments for Sewers	38 24
Baths—Park Department	1,461 15
Betterments:—	
Clark Street	403 70
Belmont Street	90 00
Bridges	380 42
Cemetery	14,836 53
Cemetery Fund	1,895 90
City Clerk's Department	740 78
City Building Account	1,345 00
City Real Estate	8,943 70
Commissioners of Sinking Funds	437,000 00
Contingent Fund	48 15
Courts—Police Department, Fines	1,323 60
Electrical Department:—	
Street Lighting	100 00
Wire Account	110 35
Fire Department	245 00
Grade Crossing Account	40,000 00
Health Department	2,068 36
Interest	15,804 45
Law Department	500 00
Libraries	616 29
Licenses	7,943 33
Loan:—	
Building	36,000 00
Cambridge Bridge	450,000 00
Cambridge Bridge, Special	28,000 00
Park	31,000 00
Schoolhouse	100,000 00
Sewer	117,000 00
Street	65,500 00
Temporary	550,000 00
Old Taxes	32 50
Out Door Relief	2,340 36
House Offal	11,729 75
Park Department:—	
Construction and Lands	2,137 60
Maintenance	59 14
Brown Tail Moth Extermination	1,471 00
Plumbers Examiner's Department	22 00
Police Department	4,385 43
Postage and Stationery	1,426 03
Premium Account	7,022 50
Schools:—	
Schoolhouses	385 71
Washington School	52 15
School Department:—	
Salaries	7,026 74
Text Books and Supplies	633 14
Sealer of Weights and Measures	829 97
Sewer Department:—	
Construction	2,220 36
Maintenance	70 36
State Aid	15,036 50
Street Department:—	
Maintenance	1,329 27
Paving—Edgestones and Sidewalks	19,710 43
Street Sprinkling	18,612 72
Tax:—	
Corporation	79,818 58
National Bank	16,961 25
Street Railway	73,489 56
Amount carried forward	$2,180,194 00

City of Cambridge in Account Current from December 1, 1903, to

Dr.

Amount brought forward	$810,247 52
Health Department: —	
Salaries	12,606 67
General Expenses	6,768 92
Small-pox Hospital	879 26
Diphtheria Hospital	8,097 69
Land for Hospital	35 00
Inspector of Animals	794 35
Inspector of Milk and Vinegar: —	
Salaries	1,363 50
General Expenses	360 41
Interest	230,394 87
Land Damages	46,193 35
Law Department: —	
Salaries	4,104 15
General Expenses	807 55
Libraries: —	
Main Library: —	
Salaries	8,923 86
General Expenses	10,590 94
East Cambridge Branch: —	
Salaries	748 31
General Expenses	1,055 38
Addition	743 29
Licenses	14 75
Loan: —	
City	52,000 00
Sewer	295,000 00
Street Widening	90,000 00
Temporary	601,000 00
Mayor's Department: —	
Salaries	5,479 99
General Expenses	527 09
Militia and Armories: —	
Armory on Beech Street	124 81
Rifle Range	548 25
Car Tickets to and from Rifle Range	299 31
Out-door Relief: —	
Salaries	2,755 00
General Expenses	24,413 87
City Physician	1,500 00
Overseers of the Poor: —	
House Offal: —	
Labor	24,521 64
General Expenses	7,336 65
Park Department: —	
Baths and Lockers	64 66
Construction and Lands	28,152 59
Maintenance: —	
Brown-tail Moth Extermination	6,685 57
Cambridge Field and Shelter	5,255 05
Commons, Squares and Public Grounds	4,995 98
General Account	695 20
Sections A, B, D, F, and Rindge Field	2,646 99
Sections G and H	3,336 23
Shade Trees	5,040 00
Plumbers Examiners' Department	95 30
Police Department: —	
Salaries	136,284 87
General Expenses	6,989 94
Postage and Stationery	1,488 19
Schools: —	
Salaries, Janitors and Others	37,101 61
General Expenses	53,235 05
Permanent Repairs	5,101 11
Fletcher School	49,079 55
Amount carried forward	$2,596,484 27

Nov. 30, 1904 (inclusive), with Wm. W. Dallinger, City Treasurer.

Cr.

Amount brought forward	$2,180,194 00
Taxes:—	
1897	39 25
1898	71 64
1899	457 81
1900	1,451 13
1901	1,673 76
1902	20,582 93
1903	399,619 94
1904	1,507,729 03
Treasury Department	2,430 81
Water Department:—	
Construction:—	
General	2,145 64
Maintenance	351,682 43
City Home	1,039 01
City Farm	4,286 47
Total Receipts	$4,473,403 85
Cash Balance in Treasury, November 30, 1903	152,898 22
Amount carried forward	$4,626,302 07

City of Cambridge in Account Current from December 1, 1903, to

Dr.

Amount brought forward	$2,596,484 27
Houghton School	8,311 75
Kelley School	639 93
Washington School	4,698 05
Addition to Rindge Manual Training School	5,620 98
School Department: —	
Care of Truants	2,121 99
Flags	105 60
Incidentals	2,073 57
Salaries	367,645 39
Text Books and Supplies	27,325 53
Transportation of Pupils	312 00
Vacation Schools	1,957 43
Sealer of Weights and Measures: —	
Salaries	1,849 60
General Expenses	494 79
Sewer Department: —	
Construction — General	50,625 96
Improved Sewerage	34,433 15
Separate System of Drainage	18,106 87
Maintenance	17,616 82
Metropolitan Sewer Tax	86,891 58
Sinking Fund Officials	340 00
Sinking Funds: —	
Cambridge Bridge	8,000 00
Clay Lands	5,335 00
General	104,408 25
Harvard Bridge	8,800 00
Hospital	225 00
Improved Sewerage	6,644 00
Metropolitan Park Assessment	1,012 00
Park	22,973 33
State Aid	25,525 40
Street Cleaning	40,224 12
Street Construction. —	
Clifton Street	313 19
Warland Street	754 47
Somerville Avenue, etc	14,099 65
Madison, and other Streets	29,465 57
Laurel Street	805 57
Salaries — Superintendent of Streets and Clerks	4,237 33
Street Paving: —	
Maintenance — General Expenses	70,490 26
Crossings	4,997 31
Rebuilding Streets	53,299 02
Wyeth Square	665 75
Cambridge Street	3,018 59
Sidewalks: —	
Paving — Edgestones and Sidewalks	31,863 79
Sidewalk Repairs	4,999 87
Snow Removal	8,544 25
Street Sprinkling	28,455 14
Superintendent of Buildings: —	
Salaries	5,819 25
General Expenses	892 52
Tax: —	
Armory	10,445 68
County	109,201 21
Grade Crossing	7,977 69
Metropolitan Park	38,064 53
National Bank	6,650 66
State	80,775 00
Tax Lien Account	44 01
Treasury Department: —	
Salaries	10,195 63
General Expenses	6,017 02
Amount carried forward	$3,982,895 32

Nov. 30, 1904 (INCLUSIVE), WITH WM. W. DALLINGER, CITY TREASURER.

Cr.

Amount brought forward	$4,626,302 07

Amount carried forward	$4,626,302 07

City of Cambridge in Account Current from December 1, 1903, to

Dr.

Amount brought forward		$3,982,895 32
Water Department: —		
Construction: —		
General	13,579 38	
Hobbs Brook Account: —		
General	274 57	
Services of City Solicitor	500 00	
Meters	4,026 01	
Stony Brook Main	3,511 42	
Maintenance: —		
Salaries of Superintendent, etc	8,978 66	
General Expenses	27,896 90	
Metropolitan Water	14,000 00	
Pumping: —		
Salaries and Labor	7,089 25	
General Expenses	10,114 95	
Fresh Pond Reservoir	10,037 52	
Grading	10,375 60	
Hobbs Brook Reservoir	1,439 67	
Payson Park Reservoir	791 58	
Stony Brook Reservoir	2,846 03	
Rent	1,200 00	
Supplies	314 11	
Ice for Fountains	147 45	
Interest	126,126 50	
Abatements	3,917 88	
Refunds	3,373 75	
Sinking Funds	121,522 50	
City Home: —		
Salaries	7,317 61	
General Expenses	12,168 69	
City Farm: —		
Labor	4,157 25	
Supplies	772 40	
Total Payments		$4,379,375 00
Cash Balance in Treasury, November 30, 1904		246,927 07
		$4,626,302 07

Nov. 30, 1904 (INCLUSIVE), WITH WM. W. DALLINGER, CITY TREASURER.

Cr.

Amount brought forward	$4,626,302 07
	$4,626,302 07

TEMPORARY LOANS IN ANTICIPATION OF TAXES, NEGOTIATED IN THE YEAR ENDING NOVEMBER 30, 1904.

Date.	Maturity.	Amount.	
1904	1904		
February 2....	July 1....	$50,000	With interest at 4. per cent. per annum.
February 18....	October 10. ..	15,000	Discounted " 4.40 " "
February 18....	October 10....	15,000	" " 4.40 " "
February 18....	October 10....	15,000	" " 4.40 " "
February 18....	October 10....	15,000	" " 4.40 " "
February 18....	October 10....	10,000	" " 4.40 " "
February 18....	October 10....	10,000	" " 4.40 " "
February 18....	October 10....	10,000	" " 4.40 " "
February 18....	October 10....	10,000	" " 4.40 " "
March 21....	October 11....	20,000	" " 4. " "
May 5....	October 11....	50,000	" " 3.05 " "
July 1....	October 12....	50,000	" " 2.67 " "
July 1....	October 12....	50,000	" " 2.67 " "
July 1....	October 12....	50,000	" " 2.67 " "
July 1....	October 12....	50,000	" " 2.67 " "
August 16....	October 13....	30,000	" " 2.70 " "
August 17....	October 14....	25,000	" " 2.70 " "
August 18....	October 14....	25,000	" " 2.70 " "
September 16....	October 14....	25,000	" " 3.125 " "
September 16....	October 14....	25,000	" " 3.125 " "
		$550,000	Average interest rate 3.564 per cent.

These loans were all paid before the close of the financial year.

PARTICULARS CONCERNING THE BONDS NEGOTIATED DURING THE YEAR ENDING NOVEMBER 30, 1904.

Date of Bonds.	Amount.	Loan.	Years to Run.	Rate of Interest.	Purchaser.	Price Paid.	Basis.
1904							
Jan. 1...	$100,000	Cambridge Bridge	40	3½	Merrill, Oldham & Co.....	100.525	3.47
Apr. 1...	80,000	Schoolhouse.....	20	3½	" " "	100.20	3.485
Apr. 1...	25,000	Building	20	3½	" " "	100.20	3.485
May 1...	28,000	Cambridge Bridge, Special Loan....	30	3½	" " "	100.50	3.47
May 1...	5,000	Building	20	3½	" " "	100.50	3.47
May 1...	200,000	Cambridge Bridge	40	3½	" " "	100.50	3.47
May 1...	112,000	Sewer.....	30	3½	" " "	100.50	3.475
Aug. 1...	100,000	Cambridge Bridge	40	3½	R. L. Day & Co.....	101.31	3.44
Sept. 1...	50,000	Street.....	20	3½	Merrill, Oldham & Co.....	101.50	3.40
Sept. 1...	25,000	Park	40	3½	" " "	102.50	3.40
Sept. 1...	50,000	Cambridge Bridge	40	3½	" " "	102.50	3.40
Sept. 1...	9,000	Street.....	20	3½	Cambridge Police Mutual Aid Association	100.00	3.50
Nov. 1...	4,500	Street.....	20	3½	City Treasurer of Cambridge, in trust for Cemetery Fund.....	100.00	3.50
Nov. 1...	2,000	Street....	20	3½	Merrill, Oldham & Co.....	101.44	3.40
Nov. 1...	6,000	Park.....	40	3½	" " "	102.18	3.40
Nov. 1...	5,000	Sewer.....	30	3½	" " "	101.87	3.40
Nov. 1...	20,000	Schoolhouse.....	20	3½	" " "	101.44	3.40
Nov. 1...	6,000	Building	20	3½	" " "	101.44	3.40
	$827,500						

RECAPITULATION.

Cambridge Bridge Loans	$450,000 00	Sewer Loans	$117,000 00
Schoolhouse Loans	100,000 00	Street Loans	65,500 00
Building Loans	36,000 00	Park Loans	31,000 00
Cambridge Bridge—Special Loan	28,000 00	Total issue	$827,500 00

FEES.

During the year the Treasurer has received official fees amounting to $2,430.81, itemized as follows: —

Summonses to delinquents	$1,357 37	
Collector's fees under Chapter 443, Acts 1902	4 00	
Preparing advertisements of sale	320 70	
Advertisements of sale	340 14	
Posting notices of sale	77 50	
Making tax deeds	308 00	
Recording of affidavits	23 10	
		$2,430 81

These fees were all turned into the City Treasury as received.

CEMETERY FUND.

Received during the year ending November 30, 1904, from proprietors of lots in Cambridge Cemetery	$1,895 90	
Which added to amount of Fund December 1, 1903	60,818 20	
Makes the present amount		$62,714 10

The interest received on the Fund for the year was $2,226.43; which has been paid to the Commissioners of the Cambridge Cemetery for the care of all lots placed in perpetual care.

The assets of the Fund, as of November 30, 1904, are invested as follows, viz.: —

Registered bonds of City of Cambridge amounting to	$61,900 00	
Deposited in Cambridgeport Savings Bank	814 10	
		$62,714 10
Fund for perpetual care of lots is	$62,582 10	
Fund for Deeds in Trust is	132 00	
		$62,714 10

This fund is held in trust by the City Treasurer.

SARAH E. RUSSELL FUND.

This is a fund bequeathed by the late Sarah E. Russell of Cambridge, in 1898, "the income therefrom to be annually expended in or towards providing a Christmas tree or Christmas gifts and entertainments for the inmates at the time of the Cambridge Almshouse."

The amount of the bequest was $814.41, and was deposited in the Cambridgeport Savings Bank, where it now remains.

The interest accumulations to November 30, 1904, have been paid to Mr. C. E. Goodrow, Superintendent of the City Home, to be used at the approaching Christmas as stipulated in the will of Mrs. Russell.

WM. W. DALLINGER,
City Treasurer.

REPORT OF COMMISSIONERS OF THE SINKING FUNDS OF THE CITY

To the Honorable, the City Council:—

The Commissioners of the several Sinking Funds of the City herewith submit their annual report covering the year ending November 30, 1904. Our report shows the condition of the Sinking Funds under two divisions, strictly Municipal and Water.

The following shows the condition of the strictly Municipal Loan Funds:—

DR.

The amount of the Funds November 30, 1903, was	$1,108,978 49	
Received from the City of Cambridge the annual requirements as appropriated by the City Council for the different loans	157,397 58	
Interest received on the invested Funds	44,249 87	
		$1,310,625 94

CR.

Paid the City Treasurer of Cambridge the amounts necessary to meet the several City Loans as they matured, viz.:—		
Sewer Loan, 6's, matured July 1, 1904, amounting to	$295,000 00	
Street Widening, 6's, matured July 1, 1904, amounting to	90,000 00	
City, 4's, matured July 1, 1904, amounting to	52,000 00	
Paid premium on bonds purchased	110 81	
Paid accrued interest on bonds purchased	171 53	
Leaving the Funds November 30, 1904	873,343 60	
		$1,310,625 94

The following figures show the condition of the Water Loan Fund:—

DR.

The amount of the Fund November 30, 1903, was	$1,062,821 46	
The amount received from the City Treasury of Cambridge, being the annual requirements for 1904, derived from Water rates, was	121,522 50	
Interest received on invested funds	38,757 37	
Premium received on bond purchased for investment	250 00	
		$1,223,351 33

CR.

Paid accrued interest on investments purchased	$2,102 85	
Paid premiums on investments purchased	2,561 74	
Leaving the amount of the Funds November 30, 1904	1,218,686 74	
		$1,223,351 33

To the Board of Commissioners of the Sinking Funds of the City of Cambridge: —

Your Committee appointed to audit the accounts of the Treasurer of the Funds respectfully reports that his accounts are correct and properly vouched and his books are well kept. A thorough computation of the cash, bond and interest transactions of the Treasurer independent of his books proves the correctness of his accounts as follows: —

MUNICIPAL LOAN FUND.

BOND ACCOUNT.

Amount of bonds in the Fund November 30, 1903	$1,002,500 00	
Amount of bonds and notes purchased during the year	65,000 00	
		$1,067,500 00
Amount of bonds and notes matured during the year		223,500 00
Amount of bonds (at par value) in the Fund November 30, 1904		$844,000 00

CASH ACCOUNT.

Cash on hand November 30, 1904	$106,478 49		
Cash received from City Treasurer from taxation	157,397 58		
Cash received for interest on investments	44,249 87		
Cash received from matured bonds	173,500 00		
		$481,625 94	
Cash paid for bonds purchased	$15,000 00		
Cash paid for premium	110 81		
Cash paid for accrued interest	171 53		
Amount paid City Treasurer to redeem City Debt falling due this year	437,000 00		
		452,282 34	
Cash on hand November 30, 1904			29,343 60
Total amount of Municipal Sinking Fund, November 30, 1904			$873,343 60

WATER LOAN FUND.

BOND ACCOUNT.

Amount of bonds in the Fund November 30, 1903	$904,900 00	
Amount of bonds and notes purchased during the year	433,700 00	
		$1,338,600 00
Amount of bonds and notes matured during the year		151,000 00
Amount of bonds (at par value) in the Fund November 30, 1904		$1,187,600 00

CASH ACCOUNT.

Cash on hand November 30, 1903	$157,921 46		
Cash received from water rates, fines, etc.	121,522 50		
Cash received for interest on investments	38,757 37		
Cash received for matured bonds	151,000 00		
		$469,201 33	
Cash paid for bonds and notes purchased	$433,450 00		
Cash paid for accrued interest on bonds purchased	2,102 85		
Cash paid for premium on bonds purchased	2,561 74		
		438,114 59	
Cash on hand November 30, 1904			31,086 74
Total amount of Water Loan Sinking Fund November 30, 1904			$1,218,686 74

FRANK A. ALLEN,
JOHN C. BULLARD,
Committee on Accounts.

Municipal Bonds to the amount of $827,500 have been issued during this year. Municipal Bonds amounting to $437,000 matured this year and were paid from this Fund. The total amount of the Funded Municipal Debt, exclusive of the Water Debt, now outstanding is $5,880,400. Deducting the present assets, at par value, of the Sinking Fund, $873,343.60, leaves the net amount of Municipal Funded Debt, November 30, 1904, $5,007,056.40. This shows a net increase of $625,134.89 during the current year. There will be due to this Fund from taxation in 1905 the sum of $160,244.67. During the next year bonds to the amount of $223,000 mature and will be paid from this Fund.

The property valuation of the City for 1904, real and personal, as declared by the Assessors is $104,827,600, an increase of $55,690 over the valuation of 1903.

No bonds on account of the Cambridge Water Works have been issued during this financial year. The total amount of the Funded Water Debt now outstanding is $3,350,600. Deducting the present assets, at par value, of the Water Loan Sinking Fund, $1,218,686.74, leaves the net Water Debt, November 30, 1904, $2,131,913.26, showing a decrease of $155,865.28 during the current year. None of the Water Debt matures next year. There will be due to this Fund from Water Rates, etc., in 1905, the sum of $121,522.50.

FRANK A. ALLEN,
JOHN C. BULLARD,
GEORGE H. HOWARD,
THOMAS F. ROYLE,
AUSTIN FORD,
GEORGE G. WRIGHT,
Commissioners of the Sinking Funds of the City of Cambridge.

The following are the investments belonging to the Municipal Funds: —

			Maturing		
Cambridge	City bonds	6s,	July 1, 1905	$63,000 00	
"	" "	3 1-2s,	Nov. 1, 1909	32,000 00	
"	" "	3 1-2s,	Nov. 1, 1911	36,000 00	
"	" "	3 1-2s,	Nov. 1, 1919	18,000 00	
"	" "	3 1-2s,	Nov. 1, 1921	27,000 00	
"	" "	3 1-2s,	Nov. 1, 1929	42,000 00	
					$218,000 00
Quincy	City bonds	4s,	July 1, 1905	7,000 00	
Haverhill	" "	4s,	Oct. 1, 1905	50,000 00	
Brockton	" "	4s,	Dec. 1, 1905	4,000 00	
Gloucester	" "	4s,	May 1, 1906	2,000 00	
Quincy	" "	4s,	July 1, 1906	1,000 00	
Fitchburg R. R. Co.		4s,	April 1, 1907	50,000 00	
Watertown	Town "	3 1-2s,	Jan. 1, 1908 to 1922	85,000 00	
Somerville	City "	4s,	July 1, 1908	8,000 00	
Belmont	Town "	4s,	Oct. 1, 1908	15,000 00	
Medford	City "	4s,	Dec. 15, 1908	10,000 00	
New Bedford	" "	3 1-2s,	Feb. 1, 1909	40,000 00	
Pawtucket, R. I.	" "	4s,	July 1, 1909	30,000 00	
Beverly	" "	4s,	July 1, 1911	9,000 00	
Medford	" "	4s,	July 1, 1911	26,000 00	
Boston & Lowell R. R. Co.		4s,	Feb. 1, 1913	1,000 00	
Allegheny, Pa.	City bonds	3 1-2s,	Oct. 1, 1914-1915-1916	66,000 00	
Medford	" "	4s,	July 1, 1915	23,000 00	
Melrose	" "	4s,	Feb. 24, 1916	10,000 00	
Brockton	" "	3 1-2s,	July 1, 1916	5,000 00	
Boston & Lowell R. R. Co.		4s,	July 1, 1916	10,000 00	
Fitchburg R. R. Co.		4s,	July 1, 1916	10,000 00	
Marlborough	City bonds	4s,	July 1, 1918	10,000 00	
Medford	" "	4s,	Aug. 1, 1918	50,000 00	
Stoughton	Town "	4s,	June 1, 1920	2,000 00	
Reading	" "	4s,	June 1, 1922	5,000 00	
Reading	" "	4s,	June 1, 1923	5,000 00	
Medford	City "	4s,	July 1, 1923	2,000 00	
Old Colony R. R. Co.		4s,	Dec. 1, 1925	50,000 00	
Fitchburg R. R. Co.	"	4s,	Mar. 1, 1927	40,000 00	
					$626,000 00
					$844,000 00
Cash in bank					29,343 60
					$873,343 60

The following are the investments belonging to the Water Loan Funds: —

			Maturing		
Cambridge	City bonds	3 1-2s,	Nov. 1, 1912	$20,000 00	
"	" "	4s,	Feb. 1, 1913	2,000 00	
"	" "	4s,	Oct. 1, 1916	65,100 00	
"	" "	3 1-2s,	Dec. 1, 1917	40,000 00	
"	" "	3 1-2s,	Nov. 1, 1919	20,000 00	
	" "	4s,	Nov. 1, 1920	5,000 00	
					$152,100 00
Amount carried forward					$152,100 00

Amount brought forward							$152,100 00
				Maturing			
Lynn	City	bonds	4s,	Jan. 1,	1905	$19,000 00	
Wakefield	Town	"	4s,	Oct. 1,	1905	5,000 00	
Brookline	"	"	3 15-100s,	Apr. 1,	1906	20,000 00	
Providence, R.I.	City	"	5s,	July 1,	1906	50,000 00	
Hull	Town	"	3 1-2s,	Sept. 14,	1906	2,300 00	
Wakefield	"	"	4s,	Oct. 1,	1906	6,000 00	
Malden	City	"	4s,	Nov. 1,	1906	5,000 00	
Troy, N. Y.	"	"	3 1-2s,	Nov. 15,	1906	2,000 00	
Wakefield	Town	"	4s,	Oct. 1,	1907	6,000 00	
Malden	City	"	4s,	Nov. 1,	1907	5,000 00	
Troy, N. Y.	"	"	3 1-2s,	Nov. 15,	1907	2,000 00	
Hull	Town	"	4s,	May 1,	1908	5,000 00	
Methuen	"	"	4s,	Aug. 1,	1908	10,000 00	
Greenfield	"	"	3 1-2s,	Oct. 15,	1908	6,000 00	
Malden	City	"	4s,	Nov. 1,	1908	5,000 00	
Troy, N. Y.	"	"	3 1-2s,	Nov. 15,	1908	2,000 00	
W. Springfield	Town	"	3 1-2s,	Dec. 1,	1908	12,000 00	
New Bedford	City	"	3 1-2s,	Feb. 1,	1909	16,000 00	
Methuen	Town	"	4s,	Aug. 1,	1909	15,000 00	
Greenfield	"	"	3 1-2s,	Oct. 15,	1909	6,000 00	
Malden	City	"	4s,	Nov. 1,	1909	5,000 00	
Fitchburg	"	"	3 1-2s,	Nov. 1,	1909	8,000 00	
Troy, N. Y.	"	"	3 1-2s,	Nov. 15,	1909	2,000 00	
Taunton	"	"	3 1-2s,	June 1,	1910	21,000 00	
Newburyport	"	"	3 1-2s,	June 1,	1910	12,000 00	
Springfield	"	"	3 1-2s,	July 1,	1910	8,700 00	
Somerville	"	"	4s,	July 1,	1910	8,000 00	
Salem	"	"	3 1-2s,	Sept. 1,	1910	5,000 00	
Gloucester	"	"	3 1-2s,	Oct. 1,	1910	10,000 00	
Greenfield	Town	"	3 1-2s,	Oct. 15,	1910	6,000 00	
Fitchburg	City	"	3 1-2s,	Nov. 1,	1910	8,000 00	
Troy, N. Y.	"	"	3 1-2s,	Nov. 15,	1910	2,000 00	
Holyoke	"	"	3 1-2s,	May 1,	1911	7,500 00	
Taunton	"	"	3 1-2s,	June 1,	1911	35,000 00	
Springfield	"	"	3 1-2s,	July 1,	1911	8,700 00	
Salem	"	"	3 1-2s,	Sept. 1,	1911	5,000 00	
Greenfield	Town	"	3 1-2s,	Oct. 15,	1911	12,000 00	
Newton	City	"	3 1-2s,	Nov. 1,	1911	12,500 00	
Fitchburg	"	"	3 1-2s,	Nov. 1,	1911	8,000 00	
Troy, N. Y.	"	"	3 1-2s,	Nov. 15,	1911	2,000 00	
New Bedford	"	"	3 1-2s,	Mar. 1,	1912	15,000 00	
Pittsburg	"	"	3 1-4s,	Apr. 1,	1912	10,000 00	
Holyoke	"	"	3 1-2s,	May 1,	1912	7,500 00	
Worcester	"	"	3 1-2s,	July 1,	1912	35,000 00	
Springfield	"	"	3 1-2s,	July 1,	1912	8,700 00	
Salem	"	"	3 1-2s,	Sept. 1,	1912	5,000 00	
Wakefield	Town	"	4s,	Oct. 1,	1912	1,000 00	
Gloucester	City	"	3 1-2s,	Oct. 1,	1912	10,000 00	
Lynn	"	"	3 1-2s,	Oct. 1,	1912	3,000 00	
Fitchburg	"	"	3 1-2s,	Nov. 1,	1912	8,000 00	
Troy, N. Y.	"	"	3 1-2s,	Nov. 15,	1912	2,000 00	
Amounts carried forward						$490,900 00	$152,100 00

Amounts brought forward						$490,900 00	$152,100 00
				Maturing			
Holyoke	City	bonds	3 1-2s,	May 1,	1913	7,500 00	
Newburyport	"	"	3 1-2s,	June 1,	1913	12,000 00	
Springfield	"	"	3 1-2s,	July 1,	1913	8,700 00	
Salem	"	"	3 1-2s,	Sept. 1,	1913	5,000 00	
Gloucester	"	"	3 1-2s,	Oct. 1,	1913	10,000 00	
Fitchburg	"	"	3 1-2s,	Nov. 1,	1913	8,000 00	
Troy, N. Y.	"	"	3 1-2s,	Nov. 15,	1913	2,000 00	
Holyoke	"	"	3 1-2s,	May 1,	1914	7,500 00	
Springfield	"	"	3 1-2s,	July 1,	1914	6,700 00	
Salem	"	"	3 1-2s,	Sept. 1,	1914	5,000 00	
Troy, N. Y.	"	"	3 1-2s,	Nov. 15,	1914	2,000 00	
Lynn	"	"	4s,	Jan. 1,	1915	16,000 00	
Weymouth	Town	"	3 1-2s,	May 1,	1915	2,500 00	
Holyoke	City	"	3 1-2s,	May 1,	1915	7,500 00	
Newburyport	"	"	3 1-2s,	June 1,	1915	12,000 00	
Springfield	"	"	3 1-2s,	July 1,	1915	5,700 00	
Salem	"	"	3 1-2s,	Sept. 1,	1915	5,000 00	
Gloucester	"	"	3 1-2s,	Oct. 1,	1915	10,000 00	
Troy, N. Y.	"	"	3 1-2s,	Nov. 15,	1915	2,000 00	
Weymouth	Town	"	3 1-2s,	May 1,	1916	2,500 00	
Holyoke	City	"	3 1-2s,	May 1,	1916	7,500 00	
Springfield	"	"	3 1-2s,	July 1,	1916	3,500 00	
Salem	"	"	3 1-2s,	Sept. 1,	1916	5,000 00	
Gloucester	"	"	3 1-2s,	Oct. 1,	1916	10,000 00	
Wellesley	Town	"	4s,	Mar. 1,	1917	2,000 00	
Waltham	City	"	4s,	Apr. 1,	1917	24,000 00	
Weymouth	Town	"	3 1-2s,	May 1,	1917	2,500 00	
Holyoke	City	"	3 1-2s,	May 1,	1917	7,500 00	
Salem	"	"	3 1-2s,	Sept. 1,	1917	5,000 00	
Gloucester	"	"	3 1-2s,	Oct. 1,	1917	10,000 00	
Hallowell, Me.	"	"	4s,	Jan. 1,	1918	15,000 00	
Wellesley	Town	"	4s,	Mar. 1,	1918	1,000 00	
Weymouth	"	"	3 1-2s,	May 1,	1918	2,500 00	
Holyoke	City	"	3 1-2s,	May 1,	1918	7,500 00	
Salem	"	"	3 1-2s,	Sept. 1,	1918	5,000 00	
Gloucester	"	"	3 1-2s,	Oct. 1,	1918	10,000 00	
Weymouth	Town	"	3 1-2s,	May 1,	1919	2,500 00	
Newburyport	City	"	3 1-2s,	June 1,	1919	11,000 00	
Salem	"	"	3 1-2s,	Sept. 1,	1919	5,000 00	
Weymouth	Town	"	3 1-2s,	May 1,	1920	2,500 00	
Penobscot Shore Line R.R. Co.			4s,	Aug. 1,	1920	25,000 00	
Fitchburg R. R. Co.			3 1-2s,	Oct. 1,	1920	50,000 00	
Quincy	City	bonds	4s,	May 1,	1923	2,000 00	
Quincy	"	"	4s,	May 1,	1924	1,000 00	
Rochester, N. Y.	"	"	3 1-2s,	July 1,	1924	35,000 00	
Quincy	"	"	4s,	May 1,	1925	2,000 00	
"	"	"	4s,	May 1,	1926	3,000 00	
"	"	"	4s,	May 1,	1927	3,000 00	
Attleborough	Town	"	4s,	July 1,	1927	10,000 00	
Quincy	City	"	4s,	May 1,	1928	3,000 00	
Winchester	Town	"	4s,	June 1,	1928	6,000 00	
Amounts carried forward						$907,500 00	$152,100 00

Amounts brought forward						$907,500 00	$152,100 00
			Maturing				
Quincy	City	bonds	4s,	May	1, 1929	3,000 00	
Fall River	"	"	3 1-2s,	Nov.	1, 1929	75,000 00	
Quincy	"	"	4s,	May	1, 1930	3,000 00	
"	"	"	4s,	May	1, 1931	3,000 00	
"	"	"	4s,	May	1, 1932	1,000 00	
Newton	"	"	4s,	Aug.	1, 1935	2,000 00	
Newton	"	"	4s,	July	1, 1936	11,000 00	
Grafton	Town	"	3 1-2s,	July	1, 1937	1,000 00	
Old Colony R. R. Co.			4s,	Jan.	1, 1938	25,000 00	
Grafton	Town	bonds	3 1-2s,	July	1, 1938	2,000 00	
Grafton	"	"	3 1-2s,	July	1, 1939	2,000 00	
							$1,035,500 00
							$1,187,600 00
Cash in bank							31,086 74
							$1,218,686 74

The bonded City Debt matures as follows, viz.: —

July 1, 1905, Sewer	6s	$144,000 00	
July 1, 1905, Street Widening	6s	14,000 00	
Aug. 1, 1905, Cemetery	4s	65,000 00	
Nov. 1, 1907, Sewer	4s	30,000 00	
Nov. 1, 1907, Paving	3 1-2s	20,000 00	
Nov. 1, 1907, Schoolhouses	3 1-2s	9,500 00	
Nov. 1, 1907, Street	3 1-2s	11,000 00	
Aug. 1, 1908, City	3 1-2s	4,900 00	
July 1, 1909, City	3 1-2s	45,000 00	
Nov. 1, 1909, Sewer	4s	22,000 00	
Nov. 1, 1909, City	3 1-2s	32,000 00	
May 1, 1910, Sewer	4s	15,000 00	
Nov. 1, 1910, Cemetery	3 1-2s	7,000 00	
Nov. 1, 1910, City	3 1-2s	36,000 00	
July 1, 1911, Sewer	4s	15,000 00	
July 1, 1911, Clay Land	4s	50,000 00	
Nov. 1, 1911, City	3 1-2s	36,000 00	
July 1, 1912, City	3 1-2s	38,000 00	
Nov. 1, 1912, Clay Land	3 1-2s	20,000 00	
Nov. 1, 1912, City	3 1-2s	20,000 00	
Aug. 1, 1913, Clay Land	3 1-2s	10,000 00	
July 1, 1914, Clay Land	3 1-2s	17,000 00	
Aug. 1, 1914, Building	4s	118,000 00	
Aug. 1, 1914, Street	4s	30,000 00	
Oct. 1, 1915, Building	4s	60,000 00	
Oct. 1, 1915, Street	4s	60,000 00	
July 1, 1916, Building	4s	70,000 00	
Oct. 1, 1916, Street	4s	137,000 00	
Oct. 1, 1916, Building	4s	33,000 00	
Oct. 1, 1916, Sewer	4s	75,000 00	
Oct. 1, 1916, Schoolhouse	4s	6,000 00	
July 1, 1917, Schoolhouse	3 1-2s	100,000 00	
Oct. 1, 1917, Harvard Bridge	4s	10,000 00	
May 2, 1918, Schoolhouse	3 1-2s	100,000 00	
Amount carried forward		$1,460,400 00	

Amount brought forward			$1,460,400 00
May 2, 1918, Street		3 1-2s	15,000 00
June 1, 1918, Schoolhouse		3 1-2s	50,000 00
July 1, 1918, Harvard Bridge		4s	100,000 00
Aug. 1, 1918, Schoolhouse		3 1-2s	142,000 00
Sept. 1, 1918, Harvard Bridge		4s	100,000 00
Mar. 1, 1919, Harvard Bridge		4s	115,000 00
July 1, 1919, Schoolhouse		3 1-2s	42,000 00
Nov. 1, 1919, Street		3 1-2s	5,000 00
Nov. 1, 1919, Schoolhouse		3 1-2s	13,000 00
Nov. 1, 1920, Harvard Bridge		4s	5,000 00
Nov. 1, 1920, Street		3 1-2s	21,000 00
July 1, 1921, Harvard Bridge		4s	60,000 00
July 1, 1921, Street		3 1-2s	30,000 00
July 1, 1921, Cambridge Bridge		3 1-2	24,000 00
July 1, 1921, Schoolhouse		3 1-2s	76,000 00
Nov. 1, 1921, Public Library		3 1-2s	27,000 00
July 1, 1922, Hospital		3 1-2s	6,000 00
July 1, 1922, Schoolhouse		3 1-2s	86,500 00
July 1, 1922, Street		3 1-2s	30,000 00
Oct. 1, 1922, Schoolhouse		3 1-2s	11,000 00
Nov. 1, 1922, Street		3 1-2s	14,000 00
Apr. 1, 1923, Street		3 1-2s	4,000 00
Apr. 1, 1923, Building		3 1-2s	3,000 00
Aug. 1, 1923, Harvard Bridge		4s	10,000 00
Oct. 1, 1923, Schoolhouse		3 1-2s	80,000 00
Nov. 2, 1923, Street		3 1-2s	12,000 00
Feb. 1, 1924, Park		4s	360,000 00
Apr. 1, 1924, Building		3 1-2s	25,000 00
Apr. 1, 1924, Schoolhouse		3 1-2s	80,000 00
May 1, 1924, Building		3 1-2s	5,000 00
Aug. 1, 1924, Sewer		4s	75,000 00
Sept. 1, 1924, Street		3 1-2s	59,000 00
Nov. 1, 1924, Building		3 1-2s	6,000 00
Nov. 1, 1924, Schoolhouse		3 1-2s	20,000 00
Nov. 1, 1924, Street		3 1-2s	6,500 00
Oct. 1, 1925, Sewer		4s	60,000 00
Aug. 1, 1926, Park		4s	100,000 00
Oct. 1, 1926, Park		4s	40,000 00
Nov. 1, 1929, Sewer		3 1-2s	42,000 00
July 1, 1830, Sewer		3 1-2s	100,000 00
Aug. 1, 1931, Sewer		3 1-2s	110,000 00
Aug. 1, 1932, Metropolitan Park Assessment		3 1-2s	46,000 00
Nov. 1, 1932, Sewer		3 1-2s	20,000 00
Apr. 1, 1933, Sewer		3 1-2s	40,000 00
Oct. 1, 1933, Sewer		3 1-2s	20,000 00
May 1, 1934, Cambridge Bridge—Special Loan		3 1-2s	28,000 00
May 1, 1934, Sewer		3 1-2s	112,000 00
Nov. 1, 1934, Sewer		3 1-2s	5,000 00
Aug. 1, 1935, Park		4s	100,000 00
Feb. 1, 1936, Park		4s	100,000 00
Sept. 1, 1937, Park		3 1-2s	100,000 00
Nov. 1, 1937, Charles River Improvement		3 1-2s	50,000 00
Amount carried forward			$4,251,400 00

Amount brought forward		$4,251,400 00	
June 1, 1938, Park	3 1-2s	50,000 00	
Aug. 1, 1938, Park	3 1-2s	50,000 00	
Aug. 1, 1938, Charles River Improvement .	3 1-2s	50,000 00	
July 1, 1939, Cambridge Bridge	3 1-2s	50,000 00	
Aug. 1, 1939, Park	3 1-2s	100,000 00	
July 1, 1940, Cambridge Bridge	3 1-2s	100,000 00	
July 1, 1940, Park	3 1-2s	50,000 00	
Nov. 1, 1940, Park	3 1-2s	50,000 00	
Feb. 1, 1941, Cambridge Bridge	3s	100,000 00	
Oct. 1, 1941, Park	3 1-2s	100,000 00	
Nov. 1, 1941, Cambridge Bridge	3 1-2s	100,000 00	
July 1, 1942, Park	3 1-2s	48,000 00	
Aug. 1, 1942, Cambridge Bridge	3 1-2s	100,000 00	
Jan. 1, 1943, Cambridge Bridge	3 1-2s	50,000 00	
Apr. 1, 1943, Cambridge Bridge	3 1-2s	50,000 00	
Apr. 1, 1943, Park	3 1-2s	50,000 00	
Aug. 1, 1943, Cambridge Bridge	3 1-2s	50,000 00	
Jan. 1, 1944, Cambridge Bridge	3 1-2s	100,000 00	
May 1, 1944, Cambridge Bridge	3 1-2s	200,000 00	
Aug. 1, 1944, Cambridge Bridge	3 1-2s	100,000 00	
Sept. 1, 1944, Cambridge Bridge	3 1-2s	50,000 00	
Sept. 1, 1944, Park	3 1-2s	25,000 00	
Nov. 1, 1944, Park	3 1-2s	6,000 00	
			$5,880,400 00

The bonded Water Debt matures as follows:—

Nov. 1, 1906	3 1-2s	$43,000 00
Oct. 1, 1907	4s	90,000 00
Nov. 1, 1907	4s	22,000 00
July 1, 1908	4s	46,000 00
Aug. 1, 1908	4s	25,000 00
July 1, 1909	4s	20,000 00
May 2, 1910	4s	288,000 00
July 1, 1910	4s	75,000 00
Sept. 1, 1910	4s	125,000 00
Jan. 1, 1911	4s	20,000 00
Oct. 1, 1911	4s	35,000 00
Jan. 1, 1912	4s	150,000 00
May 1, 1912	4s	75,000 00
Nov. 1, 1912	4s	45,000 00
Feb. 1, 1913	4s	100,000 00
Aug. 1, 1913	4s	50,000 00
April 1, 1915	4s	200.000 00
Aug. 1, 1915	4s	200,000 00
April 1, 1916	4s	100,000 00
July 1, 1916	4s	200,000 00
Aug. 1, 1916	4s	100,000 00
Oct. 1, 1916	4s	265,100 00
April 1, 1917	3 1-2s	200,000 00
July 1, 1917	3 1-2s	100,000 00
Nov. 1, 1917	3 1-2s	75,000 00
Amount carried forward		$2,649,100 00

Amount brought forward			$2,649,100 00	
Dec. 1, 1917	3 1-2s		140,000 00	
May 2, 1918	3 1-2s		50,000 00	
June 1, 1918	3 1-2s		60,000 00	
Nov. 1, 1918	3 1-2s		50,000 00	
Nov. 1, 1919	3 1-2s		23,000 00	
Nov. 1, 1920	3 1-2s		30,000 00	
July 1, 1921	3 1-2s		30,000 00	
July 1, 1922	3 1-2s		13,500 00	
Nov. 1, 1922	3 1-2s		5,000 00	
April 1, 1924	4s		300,000 00	
				$3,350,600 00

REPORT OF THE COMMITTEE ON FINANCE

The annual report of the Committee on Finance, for the financial year ending November 30, 1904, is herewith submitted.

Following the custom adopted in recent years, a condensed statement is giving below of the annual estimates as reported at the beginning of the year, by this Committee.

ESTIMATED REVENUE, 1904.

City Department accounts	$139,700 00	
Water Department accounts	359,869 76	
Other revenue	169,480 56	
Cash in Treasury December 1, 1903	92,128 97	
		$761,179 29

AGGREGATE AMOUNT OF APPROPRIATIONS RECOMMENDED.

	Revenue.	Expenses.
City Department accounts	$139,700 00	$2,474,191 53
Water Department accounts	359,869 76	121,067 82
	$499,569 76	$2,595,259 35

GENERAL RECAPITULATION.

Total estimated expenses as before stated	$2,595,259 35
Estimated revenue and cash in Treasury	761,179 29
Leaving amount to be provided for	$1,834,080 06

To meet this requirement the report recommended as follows : —

1. — The issue of funded loans, viz : —		
Cambridge Bridge Loan	$100,000 00	
Charles River Dam Loan	28,000 00	
Park Loan	25,000 00	
Sewer Loans	112,000 00	
Street Construction Loan	30,000 00	
		$295,000 00
2. — Assessments upon the Polls and Estates of the inhabitants of Cambridge, etc., for the current year, being the amount required for the municipal expenses for the year		$1,539,080 06
		$1,834,080 06

As customary at the close of the financial year, a sub-committee was appointed to count the cash in the treasury and examine the accounts of

the City Treasurer at the close of business on November 30. Aldermen Carstein and Davis and Councilman Caswell constituted this Committee. They subsequently submitted the following report: —

To the Committee on Finance: —

GENTLEMEN: — The Sub-Committee appointed to count and examine the cash in the hands of the City Treasurer at the close of business on November 30, 1904, would respectfully report: —

November 30, 1904. Actual cash and business checks in the City Treasurer's office amounted to . .		$10,736 53	
Also, a certificate from W. F. Earle, Treasurer of Harvard Trust Company of Cambridge, Mass., showing a balance (at close of business November 30, 1904), to the credit of the City Treasurer, of	$256,942 01		
From this balance should be deducted voucher checks Nos. 3717, 3791, 3825, 3997, 4012, 4028, 4061, 4288, not presented to Trust Company for payment, amounting to	293 25		
Making a net balance in above Trust Company of		256,648 76	
Also, a certificate from F. B. Wheeler, Cashier of Lechmere National Bank of Cambridge, Mass., showing a balance (at close of business November 30, 1904), to the credit of the City Treasurer, of .		13,170 17	
Also, a certificate from A. M. Wheeler, Assistant Treasurer of Cambridge Trust Company of Cambridge Mass., showing a balance (at close of business November 30, 1904), to the credit of the City Treasurer, of		67,709 21	
Making the total cash on hand			$348,264 67
December 16, 1904. After the above examination by your Committee, certain additional entries belonging to the financial year of 1904 were made, the receipts and expenditures which these same represent being as follows: —			
RECEIPTS.			
Account of City Home		$6 30	
Account of City Farm		436 15	
Account of House Offal		314 70	
Account of City Clerk's Fees		42 25	
Account of Licenses		57 90	
Account of Assessments for Sewers		135 20	
Account of Interest — on deposit in Harvard Trust Company to date .	$1,156 90		
On Taxes of 1903 and 1904 . .	142 25		
		1,299 15	
From Commonwealth of Massachusetts: —			
Account of Health Department — Contagious disease cases		262 85	
Account of School Department — Tuition of State Wards		897 00	
Amounts carried forward		$3,451 50	$348,264 67

Amounts brought forward	$3,451 50	$348,264 67
Account of State Aid	14,262 00	
Account of Corporation Tax	74,778 70	
Account of National Bank Tax (being amount received for stocks of Massachusetts banks outside of Cambridge, owned by Cambridge residents)	16 684 14	
Account of Out-door Relief	419 50	
Account of Taxes, additional to previous entry of November 30, 1904: —		
Taxes 1901	2 00	
Taxes 1903	940 12	
Taxes 1904	19,939 45	
Street Watering	186 84	
Treasury Department, summons on taxes above	15 80	
Account of State Aid — Money on November pay-rolls, uncalled for	28 00	
A total of		$130,708 05
Which amount, added to City Treasurer's cash balance of November 30, 1904, as above, makes a total of		$478,972 72

EXPENDITURES.

Authorized additional payments as of November 30, 1904, verified by your Committee are as follows: —		
Account of City Home — Auditor's Draft	75	
Account of Water Department — Fresh Pond Grading:		
Pay-roll No. 248	312 75	
Paid Commonwealth of Massachusetts: —		
Account of Armory Tax	10,445 68	
Account of Grade Crossings	7,977 69	
Account of Metropolitan Parks	38,064 53	
Account of Metropolitan Sewer	86,891 58	
Account of National Bank Tax, being refund of taxes on non-resident owners of stock in Cambridge banks	6,650 66	
Account of State Tax for 1904	80,775 00	
Account of Abatements — Taxes. Assessors' certificates received and allowed on additional entries of taxes	927 01	
A total of		$232,045 65
Which, deducted from the foregoing total of receipts, shows a balance in City Treasurer's hands, as of November 30, 1904, of		$246,927 07
Your Committee would further state that we examined the total cash receipts and expenditures, as per City Treasurer's ledger, and find the same to be as follows: —		
Total cash receipts from all sources for year ending November 30, 1904	$4,473,403 85	
To this should be added cash balance of November 30, 1903	152,898 22	
A total of		$4,626,302 07
Amount carried forward		$4,626,302 07

Amount brought forward	$4,626,302 07
Total cash expenditures for year ending November 30, 1904, the same authorized by sundry drafts of the Mayor, which your Committee examined . .	4,379,375 00
Which amount deducted from above total of receipts, shows a cash balance as of Nov. 30, 1904, verified by our above report of	$246,927 07

The Sub-Committee were enabled to further verify the above statement of receipts and expenditures, by comparison with the City Auditor's statement for December, 1904.

Your committee also examined the securities belonging to the several funds held in trust by the City Treasurer — namely the Cemetery Fund, $62,714.10; Sarah E. Russell Fund, $814.41 — and find the same to be correct.

HANS L. CARSTEIN,
WILLIAM R. DAVIS,
GEO. B. CASWELL.

The foregoing report was accepted by the Committee, and ordered to be incorporated in its annual report.

JOHN W. COVENEY,
HANS L. CARSTEIN,
WILLIAM R. DAVIS,
WARREN K. BLODGETT,
HARRY N. STEARNS,
SAMUEL D. ELMORE,
JULIUS MEYERS,
GEORGE B. CASWELL,
JEREMIAH F. DOWNEY,
CHARLES WOLCOTT,

Committee on Finance.

REPORT OF THE BOARD OF CEMETERY COMMISSIONERS

CAMBRIDGE, December 1, 1904.

To the Honorable, the City Council: —

The Board of Commissioners of the Cambridge Cemetery respectfully submits the fifty-first annual report, the same being for the year ending November 30, 1904.

The amount appropriated at the beginning of the year was,

Salaries, $17,000 00	General Expenses, $3,000 00

The total amount of expenditures was

$14,901 60	$3.177 22

The additional appropriation required to meet the expenditure for General Expense Account was secured from the City Council by a special order.

There was transferred to the appropriation for Contingent Fund of the City from the appropriation for Cemetery Department the sum of $1,800.00, leaving a balance of $121.18 unexpended from the total appropriations made to this department.

For a detailed account of expenses, reference is made to the City Auditor's Report.

The receipts of the year have been as follows: —

Burial and tomb fees	$4,283 00
Care of lots	2,058 13
Sale of lots and graves	4,237 00
Foundations, brick graves, etc.	1,539 71
Interest on Cemetery Fund	2,226 43
Sundries	492 26
Total	$14,836 53

The estimated revenue by this Board from General Account was $18,000.00; decrease of revenue under estimate, $3,163.47.

A glance at the revenue account reveals an unsatisfactory condition, but one which has been foreshadowed in recent reports of this Board.

The receipts from sale of lots have not been as large as should reasonably be expected, and the cause for the comparatively small return from this source may readily be traced to the limited opportunities afforded prospective lot buyers to make a satisfactory selection.

This comment is only the repetition of previous statements, but it is again repeated with greater emphasis than ever.

The receipts from sales has been one-third less than those of last season and is the smallest amount placed to the credit of this account during the past ten years.

For general information I present the following table showing the receipts from all sources and the receipts from sales of lots from 1894 to and including the present season: —

	General.	Sale of Lots.
1894	$18,331 05	$6,675 13
1895	17,388 56	5,956 13
1896	18,050 36	6,435 59
1897	19,644 05	8,678 63
1898	19,086 37	8,672 55
1899	16,133 90	5,335 05
1900	16,155 07	5,581 30
1901	17,466 39	7,380 35
1902	19,944 68	8,290 61
1903	16,890 99	6,268 02
1904	14,836 53	4,237 00

An examination of the foregoing list will show that the amount received has been fifty per cent. less than in 1897, 1898 and 1902, and the Board feels that the reason hereinbefore suggested is the conclusive one to advance for this diminution.

The present situation in the affairs of the Cemetery is sufficiently important to urge the desirability of more generous appropriations than have been the custom in recent years in order that the land remaining for disposal may be arranged for burial purposes at once. With the exception of the past year, the Board has been prevented by insufficient appropriations from doing little, if any, construction work, with the result that the territory at the command of the Board has not been prepared for sale.

With sufficient funds to prosecute the work the coming season, it is felt that the work already begun,— of which that at the Knoll on Winchester Avenue is only the commencement,— will result in an ability to offer to intending purchasers most desirable lots, with a consequent increase in the receipts.

In 1904 fifty-eight single graves have been sold and only thirty-two lots of more than one grave.

The receipts from all other portions of Cemetery Account have been normal.

The general appearance of the Cemetery has been excellent during the season just closed. By reason of the appropriation for Labor Account the Board was able to retain its force of men until December 1st, and by

so doing, much needed work was performed towards keeping the Cemetery beautiful to the eye as well as continuing the laying out of the land in the vicinity of River and Winchester Avenues.

At the extremity of the Cemetery near River Avenue no extension can be made southerly until the area between River Avenue and the boundary line of the grounds has been filled and graded.

This area contains about one acre of low land which will require deep filling and at the present time could not be prepared for use without great cost. Probably $10,000 would be required to complete the filling and grading of this tract and it is not deemed wise to attempt any improvement here until a more favorable opportunity presents itself.

The triangular plot in the vicinity of Greenwood, River and Winchester Avenues is all the territory remaining at the disposal of the Board, and should be laid out at once.

This will require a large appropriation for labor, which will be the principal item of expense.

It is hoped to commence the work the coming season and if possible complete the entire work in the following season.

It had been the intention of the Board to perform this work during the season just closed, but an examination of the prevailing conditions showed the impracticability of attempting the laying out of this tract on any comprehensive scale with the limited amount at the command of the Board. As it was urgently necessary that some portion of the ground should be prepared immediately and at as little expense as possible, during the past year the Board caused to be prepared a plan for the utilization of the Knoll on Winchester Avenue near the receiving tomb.

From many points of view, this appeared to be the most desirable portion of the Cemetery and, in order that the best results might be achieved, the Board obtained expert advice in the formulation of a scheme of improvement.

The plan prepared by Mr. Arthur F. Gray, Landscape Artist, was accepted and a contract was made with Messrs. Austin Ford & Son to lay the granite work. This work is now progressing and will doubtless be finished shortly so as to allow the construction of the granolithic walks in the early spring.

In his letter to the Board, descriptive of his plan, Mr. Gray said: —

"The plan contemplates the putting in of sixty-nine lots with the total area of 12,711 square feet available for sale. The arrangements of paths and lots are so made as to avoid any extensive filling. I have indicated only one path as suggestive for gravel, that is the circular path around the summer house and the path extending from this circle to Winchester Avenue. The path extending from the summer house to

Rosebay Avenue has granite steps introduced into it and is curbed throughout its length. This portion I would suggest making with granolithic surface and using cut granite where required." "The area of the lot laid out and the land available for sale is given above; the number of lots and their approximate sizes appears here: —

1 lot	115	sq. ft.	115	sq. ft.
2 lots	120	"	240	"
2 lots	125	"	250	"
1 lot	138	"	138	"
1 lot	140	"	140	"
19 lots	150	"	2,850	"
1 lot	155	"	155	"
1 lot	157	"	157	"
1 lot	160	"	160	"
1 lot	165	"	165	"
1 lot	170	"	170	"
1 lot	180	"	180	"
2 lots	183	"	366	"
2 lots	190	"	380	"
13 lots	200	"	2,600	"
1 lot	205	"	205	"
5 lots	207	"	1,035	"
9 lots	210	"	1,890	"
1 lot	275	"	275	"
4 lots	310	"	1,240	"
Total lots	69		Total area	12,711 "

The lots on Winchester Avenue are shown 10 feet 6 inches in width and 20 feet in depth, this being sufficient for eight burials.

If it is desired to have larger lots, two may be sold together and they would then have a dimension of 20 feet by 21 feet 6 inches, and contain about 433 square feet each. There is also a pair of lots on Rosebay Avenue which could be treated in like manner, giving an area of 413 square feet if same is desired."

When completed there will be at hand for immediate use sixty-nine lots, in a most sightly and commanding location which should meet with a ready sale.

The Superintendent reports the following statistics: —

Interments for 1904	578
Interments, total	25,923
Interments (Overseers of the Poor)	36
Lots sold	32
Graves sold	58
Graves leased	101
Lots ready for sale	164
Estimated value of same	$33,607 08
Graves ready for sale (including leased)	161
Estimated value of same	$1,900 00
Expended on old burial ground	77 00
Expended on soldiers' lot (Prospect Avenue)	45 00
Expended on soldiers' lot (Summit Avenue)	28 00

The Superintendent also reports to this Board recommendations for the extension of the water mains from Halcyon Avenue to River Avenue and on Lawn Avenue, from Elm Avenue to Prospect Avenue, for the purchase of a horse, and for the introduction of electric or some system of lighting to the office building, all of which are approved by the Board.

Since the last report fifteen lots have been placed in perpetual care. The fund has increased $1,895.90, the total number of lots perpetuated being 466. The total invested fund is $62,582.10.

The open area on Island Avenue, which was the location of the pond and which has been filled and graded with the intention of preparing it for burials, has settled considerably near its center.

It is the intention to crown this area and to do this clean gravel filling will be required. At least two more years must elapse before this land can be utilized.

The kind of grave markers heretofore in use has been a source of much objection and a new style of marker should be substituted.

There are at present about 7,000 markers in the Cemetery and the projection above the ground of the slate or marble in use is unsightly.

After an examination of various markers, it would appear that a galvanized iron marker made so as to set in the ground and flush with the surface is the most suitable. The cost of these markers would be about forty cents each.

It is not the intention of the Board to substitute iron markers herein recommended for all of the slate and marble markers now in existence, but it is advisable to change the style of marker to conform to the suggestion in this report, and each year to substitute a limited number for those now in use, so that eventually all of the old markers will be removed and the iron ones be used.

The condition of the wall, extending from the Winchester Avenue entrance and the boundary on Coolidge Avenue to the extremity at the Watertown line, demands immediate attention. This wall is probably forty years old and was not constructed in a substantial manner, the stone being placed on edge instead of in the width. The life of the mortar is gone, with the result that the wall is fast crumbling to pieces. As this wall acts not only as a boundary but also as a retaining wall for Coolidge Avenue, it will be necessary to repair and strengthen it before any lots are laid out in this portion of the grounds.

The Board feels that the proper manner in which to treat this wall is to entirely reconstruct it to about six inches above the surface of the street and then continue the iron fence, at least as far as the River Avenue gateway on Coolidge Avenue. This would require about 1,800 feet of fence and the cost would undoubtedly be about $6,000. If it

is not possible to complete this wall and fence during the coming season, sufficient money should be appropriated to enable a substantial part of the same to be constructed. This recommendation is made both from the viewpoint of appearance and utility.

At the January meeting of the Board, a communication was received from His Honor, the Mayor, notifying the Board of his acceptance of the resignation of Mr. George S. Saunders as a member.

Mr. Saunders had been a member of the Board continuously since 1866, and had been active in his membership, commanding the esteem and appreciation of his colleagues.

On the adoption of the new City Charter in 1891, the Mayor of the City discontinued his connection with the Board, and Mr. Saunders was chosen as its presiding officer, to which place of honor he has been annually reelected.

By a unanimous vote, the members of the Board recorded their sentiments in the following resolve, to wit:—

"Inasmuch as our Chairman, Mr. George S. Saunders, has deemed it best to present to His Honor, the Mayor, his resignation as a member of the Board of Commissioners of the Cambridge Cemetery, after thirty-eight years of continuous service.

Resolved: That we, his associates, express our regret at the action of Mr. Saunders and place on record our appreciation of his sterling qualities as a man and as a public-spirited citizen, and feel that his resignation is a distinct loss not only to this Board but to the City at large.

Resolved: That we extend to Mr. Saunders our best wishes for continued health and prosperity."

At the February meeting Mr. Samuel Usher and Mr. Gustave Wilson attended as members of the Board in place of Mr. George S. Saunders (resigned) and Mr. Michael J. O'Brien respectively. Mr. O'Brien had completed his term of service.

At the February meeting Dr. Herbert A. Chase was chosen Chairman.

ADDITIONAL LANDS.

Negotiations with the Mt. Auburn Cemetery Corporation for the conveyance of its property on Coolidge Avenue adjoining the Cemetery have not progressed during the past season.

The wisdom of controlling this plot, which detracts so much from the appearance of the Cemetery grounds, seems to be generally admitted but no action has been taken by the City Council.

In the last report the acquirement of the Coolidge estate was recommended provided such a consummation could be reached for a reasonable

sum. Those in control of the estate made an offer of sale for $200,000 but the board recommended its purchase for $150,000. A subsequent and definite offer of $175,000 was made by the representative of the estate provided the proposition would be accepted before a specified date.

As the time limit was nearing expiration, the Board on February 15th, last, transmitted to the City Council the following recital of facts, which tells concisely the position of the Board: —

"RECITAL OF FACTS.

That the necessity for additional land for cemetery purposes has been apparent to this Board for some years.

That the Coolidge Farm, so called, seems to be the most suitable of any land in Cambridge, particularly on account of its proximity to the present Cemetery.

That in August, 1903, two conferences were had between this Board and Judge J. H. Merriam of Passadena, California, who had in charge an undivided one-quarter interest in this property and who by a private arrangement with the other parties interested was in a position to offer the property for sale.

That Judge Merriam set a price of $200,000, at first, which this Board thought excessive.

That this Board suggested $150,000 as a fair figure, and agreed, upon receipt of a formal proposition in writing from the parties represented by Judge Merriam, to recommend the purchase to the City.

That upon the return of Judge Merriam to California, such a proposition was forwarded to this Board, naming $175,000 as the price and giving the City an option until January 1, 1904.

That this proposition was forwarded to the City Council by this Board with the suggestion that $150,000 seemed to be a fair price.

That the matter was referred to the Committee on Public Property of last year, which gave the Board an informal hearing, but owing to the time of the year the Committee came to no definite conclusion, so that the whole subject was referred to the present City Council.

That it has been ascertained recently that the price has been reduced to $150,000 and that the time for consideration by the City has been extended until March 5th next.

That Judge Merriam is now here and prepared to consummate the sale if the City sees fit.

RECOMMENDATION.

Therefore, in view of these facts, this Board respectfully recommends that some action be taken at an early date in justice to Judge Merriam and to the City, especially when it is taken into consideration that the time in which Judge Merriam is empowered to act is drawing to an end,

and that if this opportunity should be allowed to pass unimproved, it seems to this Board that the chances for the City to secure this property upon such favorable terms are very small."

The matter was then taken up by the City Council and after prolonged consideration action was again deferred, until the offer was eventually withdrawn.

For at least thirty years, if not longer, the advisability of securing this tract has appealed favorably to the Commissioners and by failing to agree upon terms of sale, the City has lost an opportunity to acquire a territory which appeared to be needed and in the precise location to be of greatest benefit to the Cemetery.

HERBERT A. CHASE,
JOHN LYNCH,
NATHAN C. LOMBARD,
GUSTAVE WILSON,
SAMUEL USHER,
} *Board of Cemetery Commissioners.*

REPORT OF SUPERINTENDENT OF STREETS

To the Honorable, the City Council: —

GENTLEMEN: — In accordance with the provisions of Section 4, Chapter 25, of the Revised Ordinances, the annual report of the Superintendent of Streets is herewith respectfully submitted. Although the present Superintendent of Streets did not assume office until February 1, 1904, it will be understood that this report covers the entire financial year, December 1, 1903, to November 30, 1904.

The standard appropriations of the department are first treated in alphabetical order and are followed by the special appropriations passed during the year.

BRIDGES.

Appropriation		$3,100 00
Pay-roll	$2,430 51	
Repairs: —		
First Street Bridge	317 67	
Third Street Bridge	44 05	
Sixth Street Bridge	223 44	
Walden Street Bridge	41 05	
Wellington Street Bridge	41 05	
		3,097 77
Balance		$2 23

For a number of years the appropriation for the care and repair of the bridges under the charge of the Street Department has been so small that it was not possible to do even absolutely necessary repairs and for this reason they have been allowed to get into such condition that next year it is positively necessary that a larger appropriation should be made. Reference to the report of the Engineer's examination of the bridges at the end of this financial year will show what must be done to put the bridges in proper repair.

Walden Street bridge will need replanking as usual, though at present the roadway is in good repair. The ironwork above the deck needs repainting and below deck quite a portion of the iron needs repainting, many places scraping and painting, and the sidewalk brackets are so badly corroded as to need renewal soon. The casing placed upon the

lower flanges of the main girders and some other portions of the bridge is in first rate order, showing scarcely any abrasion from the gases and cinders of passing locomotives. One of the casings has been partly knocked off and one is entirely carried away. This same condition was reported last year but no repairs have been made and as a consequence the flange of the main girder has been exposed for a twelve-month to engine gases. This repair should be made without further delay. The old arch at the northerly end of this bridge shows signs of decay and unless it is to be filled up the masonry should be given needed repairs.

The Huron Avenue bridge over the Watertown branch railroad will need entire replanking and all the iron above deck should be well painted the coming season. Below deck there are quite a good many surfaces where the iron is scaling and needs scraping and painting. Most of the sheet lead which was used upon this bridge is still in fair condition though showing hard usage by locomotive exhausts. Some of the sheets, however, are loosened and hanging down from the I-beams give a most dilapidated look to the bridge. They should be at once replaced, both for looks sake and that they may yield the protection intended. A few sheets have been entirely removed and should be replaced.

The Huron Avenue and Pipeway bridge needs entire replanking. The fence on the bridge and along the approach are badly in need of paint and the posts of the approach fence should be reset. Much of the iron-work below the deck is well painted and in good condition, but there are many spots where a little paint would be beneficial and perhaps defer entire repainting.

Wellington Brook bridge is in fair condition. The abutments are scarcely more than heaps of stone but the stringers are so long that they get fair bearings and though part of one wall has fallen into the brook no harm seems to result.

The bridge over Alewife Brook is in good condition, but on the southerly side of Massachusetts Avenue the retaining wall has a bad break which if not repaired is liable to result in defective highway or accident to pedestrians. The fence needs painting and a little painting should be done on the northerly side of the street.

The First Street bridge will need as usual new top plank, the under planks are in good condition. Some decay appears in the stringers but probably they will last until some decision is reached as to what shall be done about a new bridge for this place. Some of the planking on the face of the draw has been torn off and the caps of the piles are badly decayed and some pieces gone.

Third Street bridge will need top plank. The west stringer south of the draw is in very bad condition.

Patrol Cart Force — Street Cleaning Division

The Sixth Street bridge must be replanked and two or three of the stringers on each side of the draw are decaying, though they may last another year. The fence needs new boards.

The First, Third and Sixth Street bridges are almost free from traces of paint.

CLEANING STREETS.

Appropriation		$31,000 00
Pay-roll	$23,814 13	
Teaming	3,371 27	
Hay	777 94	
Grain	1,058 64	
Straw	301 55	
Hardware, tools, etc.	220 99	
Harnesses, repairs, etc.	62 54	
Refilling machine sweeper brooms	282 10	
Machine sweeper repairs	87 72	
Gravel	360 00	
Stable supplies	2 25	
Rubbish barrels	125 00	
Painters' supplies	20 30	
New machine sweeper	260 00	
Sundries	255 00	
		30,999 43
Balance		$0 57

There has been very little increase in the amount provided for this work during the past few years, although the work of this particular branch of the department is steadily increasing and public demands growing greater each year. The extension of smooth pavements in our thoroughfares makes it necessary that special attention should be given to those particular streets. This year we have started on streets of this character a patrol cart system which we have reason to believe has given great satisfaction to the public. Twelve of these carts were purchased, with six cans to each cart. These cans are distributed at intervals along the street and as fast as they are filled are set upon the curbstone and an empty one put upon the cart in its place. The full cans are emptied by the dump cart which makes two or three daily trips to each of the sections. There are still a number of sections of the City which are not covered and I recommend that the appropriation for street cleaning be made large enough next year to extend this system to all the principal streets and squares in the City. The cut accompanying this report gives a fair idea of the kind of patrol cart used.

COLLECTION OF ASHES.

Appropriation		$32,100 00
Pay roll	$28,193 36	
Teaming	80 00	
Hay	1,511 14	
Grain	1,643 04	
Straw	292 12	
Hardware, tools, etc.	23 37	
Harnesses, repairs, etc.	49 95	
Renewals and repairs, wagons	255 85	
Horse shoeing stock	40 15	
Sundries	8 00	
		32,096 98
Balance		$3 02

The above amount is the largest that has yet been spent in any one year for the collection of ashes. This is accounted for by the severity of last winter which in two ways increased the cost of the work. First, a great deal more fuel was burned than usual, and second, on account of the numerous snow storms greater difficulty was encountered in the collection of the ashes and rubbish put out.

The necessity of some provision of consuming the light refuse which is collected throughout the City grows more pressing each year. We are still adhering to the old-fashioned method of dumping it on public places, burning the light material to the great annoyance and sometimes danger of surrounding property owners. Some years ago provision was made for building a crematory at the Raymond Street yard and in fact a building was constructed there with the expectation that at some time an incinerator would be provided and this light material disposed of. I earnestly suggest that this matter be looked into during the coming year as it seems to me one of very great importance.

CROSSINGS.

Appropriation		$5,000 00
Pay-roll	$2,753 19	
Teaming	457 50	
Hardware, tools, etc.	19 50	
Vitrified bricks	476 60	
Cement	440 00	
Granite flagging	226 12	
Gravel, freight and loading	45 00	
Vitrified paving-blocks and freight	502 40	
Relaying tar concrete crossings	67 00	
Lighting	10 00	
		4,997 31
Balance		$2 69

It has been customary up to the present year to make an appropriation of $10,000 entitled "Crossings and Repairs," to which was charged the cost of repairing crossings and repairing brick sidewalks. This year that appropriation has been divided and an appropriation of $5,000 was made for "Crossings" and another of the same amount for "Sidewalk Repairs."

The amount expended, as shown above, was therefore exclusively used in the construction and repair of street crossings. Never in the history of the Street Department have so many crossings been laid as this year. Twenty-nine vitrified brick crossings were laid on Harvard Street alone and the total number constructed out of this appropriation has been 74. We have practically abandoned, except in extreme cases, any other style of crossing, but vitrified brick. They are durable, easily cleaned and on the whole not any more expensive than the old-fashioned flagging crossing used years ago.

EDGESTONES AND SIDEWALKS.

Appropriation		$30,000 00
Pay roll	$9,511 65	
Teaming	1,171 88	
Grain	216 24	
Straw	55 65	
Hardware, tools, etc.	269 11	
Harnesses, repairs, etc.	5 03	
Bricks	3,287 60	
Edgestones	8,022 41	
Gutter stone	4,912 09	
Gravel, freight and loading	914 41	
Allowance on artificial stone sidewalks	1,442 53	
Lighting	162 36	
Sundries	28 17	
		29,999 13
Balance		$0 87

This amount has been expended this year entirely in the construction of new sidewalks. The work was all done in the early part of the year so that the estimated revenue would be received by the City Treasurer during the present financial year. On a large number of streets throughout the City brick sidewalk, edgestones and gutter have been laid. Perhaps the most notable is the continuous sidewalk laid on the north side of Hampshire Street from Broadway to Prospect Street over which thousands of people pass daily to and from the factories in that locality. A large number of artificial stone sidewalks have been laid throughout the City. As usual there remains in the files of the department a considerable number of uncompleted orders and petitions which have not been acted

upon. There seems to be no reason why this appropriation should not be made large enough so that the property holders desiring sidewalks in front of their estates, willing to pay their proportion of the cost, would not be obliged to wait an unreasonable time before the work could be done.

MAINTENANCE — GENERAL.

Appropriation		$70,000 00
MAINTENANCE (MACADAMIZING, REPAIRS AND GENERAL EXPENSES).		
Pay-roll	$38,471 06	
Teaming	4,160 91	
Hay	1,727 28	
Grain	2,133 27	
Straw	80 45	
Hardware, tools, etc.	362 38	
Harnesses, repairs, etc.	710 35	
Steam-rollers, repairs and supplies	2,262 49	
Stone-crushers, repairs and supplies	716 69	
Horse shoeing stock	314 21	
Field stone	4,236 14	
Crushed stone	6,249 22	
Stone dust	904 31	
Gravel	821 01	
Fuel	1,694 39	
Street signs	5 80	
Lighting	467 96	
Telephones, stationery and miscellaneous office supplies	840 71	
Renewals and repairs, stables	410 32	
New horses	1,700 00	
Carriage and wagon repairs	411 04	
Painters' supplies	208 80	
Stable supplies	511 60	
Sundries	592 74	
		69 993 13
Balance		$6 87

As is perhaps now very generally known, all the running and operating expenses of the various divisions of the Street Department are charged to the appropriation for maintenance, so that usually more than half the amount is expended in that way leaving only the remainder for work performed on the streets.

The condition of the macadamized streets throughout the City, which must be maintained out of this appropriation, is such that very little progress can be made unless this appropriation is very largely increased. For the next five years at least this appropriation should not be less than $100,000. Even with that amount we shall not be able to any more than keep these streets in a satisfactory condition.

The following table shows the amount expended this year in grading, macadamizing, resurfacing and patching to have been about $33,000.

We have painted the wood-work of the buildings at the Raymond Street yard. These buildings were built in 1897 and had received no attention in this direction since then and were rapidly deteriorating for lack of proper painting.

A steam-roller was purchased out of this appropriation and, reports to the contrary notwithstanding, has done good service during the season.

RESURFACING DISTRICT 1.

STREET.	Labor.	Teaming.	Steam-Roller.	Crushed Stone.	Gravel.	Total.
Massachusetts avenue, from Dana to Bigelow	$93 91	$103 50	$42 00	$210 00	.....	$449 41
Charles, from Fourth to Fifth	64 25	80 00	35 00	260 00	.....	439 25
Broadway, from Inman to Fayette	62 00	80 00	35 00	147 50	.....	324 50
Prospect, from Somerville line to 100 feet south	20 00	36 75	21 00	88 13	.....	165 88
Columbia, from Lafayette square to Cambridge	608 16	981 50	346 50	2,113 75	.....	4,049 91
Harvard, from Sixth to Dana	1,398 63	1,740 25	607 25	3,637 50	$81 00	7,464 63
East, from bridge to R. R. crossing	99 00	37 50	17 50	82 50	.....	236 50
Berkshire, from Bristol to York	100 25	150 25	63 00	358 75	.....	672 25
Warland, from River to Pleasant	37 25	71 75	21 00	173 75	4 00	307 75
Waverley, from Putnam avenue to Erie	22 00	36 25	.....	9 00	.....	67 25
Binney, from Second to Third	502 00	211 06	.....	2 00	40 50	755 56
Seventh, from Cambridge to Gore	38 00	60 00	28 00	135 00	.....	261 00
Line, from Cambridge to Somerville line	75 12	116 75	56 00	287 50	.....	535 37
Pioneer, from Main to Broadway	38 38	40 00	21 00	97 50	.....	196 88
Sidney, from Pacific to Erie	583 00	993 30	.....	.....	206 40	1,782 70
Total						$17,708 84

RESURFACING DISTRICT II.

STREET.	Labor.	Teaming.	Steam-Roller.	Crushed Stone.	Gravel.	Total.
Vassal lane, from Walden to Lakeview avenue	$387 50	$1,373 25	.....	.....	$412 20	$2,172 95
Dudley, from Clifton to Jackson	8 00	17 50	.....	$75 00	30	100 80
Magoun, from Massachusetts avenue to Whittemore avenue	136 00	420 00	.....	.....	144 90	700 90
Mead, from Walden to Cogswell avenue	.....	16 25	$7 00	56 25	3 00	82 50
Massachusetts avenue, from Alewife brook to Chester	589 38	937 25	351 75	2,477 50	.....	4,355 88
Frank, from Massachusetts avenue to Somerville line	12 00	45 38	21 00	78 75	12 00	169 13
Frost, from Roseland to Harris	37 00	112 00	42 00	275 00	10 00	476 00
Locke, from Meacham road to Frank	36 25	70 38	15 75	143 50	.....	265 88
Massachusetts avenue, from Dana to Quincy	89 00	247 75	84 00	191 25	26 00	638 00
Forest, from Massachusetts avenue to Somerville line	63 75	203 50	56 00	375 00	11 50	709 75
Woodbridge, from Massachusetts avenue to Locke	33 88	86 50	19 25	114 13	6 00	259 76
Sacramento, from Massachusetts avenue to Somerville line	8 00	52 00	28 00	250 00	.....	338 00
Clifton, from Dudley to Harvey	26 00	66 75	28 00	87 50	20 00	228 25
Dudley, from Clifton to Jackson	10 00	34 75	10 50	38 75	.....	94 00
Creighton, from Massachusetts avenue to R. R. Crossing	18 00	68 63	10 50	73 75	5 00	175 88
Royal avenue, from Concord avenue to Huron avenue	28 00	75 00	.....	.....	22 80	125 80
Total						$10,893 48

RECAPITULATION.

Resurfacing, District I.,	$17,708 84
" " II.,	10,893 48
Patching, District I.,	1,785 97
" " II,,	2,663 24
	$33,051 53

MAINTENANCE — SALARIES.

Appropriation		$4,250 00
Salary of Superintendent	$1,994 62	
Salary of Chief Clerk	1,226 05	
Salaries of other clerks	1,016 67	
		4,237 34
Balance		$12 66

This appropriation is for the payment of the salaries of the Superintendent and the office force at City Hall. It seems to me that as there is at present employed at each yard a clerk taken from the civil service classified list that their salaries should be included in the above, and I shall so recommend to the Finance Committee when the budget is made up.

SIDEWALK REPAIRS.

Appropriation		$5,000 00
Pay-roll	$3,867 17	
Teaming	189 38	
Grain	12 50	
Hardware, tools, etc.	19 50	
Bricks	659 75	
Gutter stone	173 77	
Granolithic sidewalk repairs	77 80	
		4,999 87
Balance		$0 13

Reference is made on another page to the above appropriation, and it only remains to say that the amount above shown was expended entirely in relaying brick sidewalks, resetting old edgestone and repaving gutters. The amount is totally inadequate for the needs of the City. Hundreds of sidewalks have been allowed to get out of repair on account of the lack of appropriation and for the next four or five years the amount should be at least doubled in order to make any progress whatever.

SNOW REMOVAL.

Appropriation for 1904 (from the Street Railway tax)		$18,000 00
Pay-roll	$17,117 64	
Teaming	142 50	
Hay	196 78	
Grain	318 20	
Hardware, tools, etc.	181 95	
Sundries	42 00	
		17,999 07
Balance		$0 93

This is a new appropriation of this department and was made necessary this year by the phenomenal winter. Everybody remembers the succession of snow storms from December to March, during which time it was necessary to keep a large force of men at work practically all the time. The amount expended was three times as large as the previous year and twice as large as any year in the history of the department.

The City Government by an ordinance recently passed has directed that the Street Department shall shovel the snow from the sidewalks and walks of all the schoolhouses in the City, and a force of men has been organized to meet that requirement. It is intended that the work shall be done early in the morning before the children go to school. This will require a considerable increase in the ordinary expenses of snow removal, the amount of which can only be determined by a year's experience.

STREET WATERING.

Appropriation		$28,000 00
Pay-roll	$3,045 65	
Sprinkling contracts	23,353 55	
Hardware, tools, etc.	17 65	
Harnesses, repairs, etc.	5 75	
Watering cart repairs	1,060 66	
Standpipe repairs	209 78	
Sundries	306 96	
	———	$28,000 00

The work of this division of the department during the past year has been very satisfactory if we may judge from the small number of complaints received at the office. The number of routes was increased by two and new carts were purchased for that purpose. The service could be still further greatly improved by adding at least two more routes next year. I would recommend that the question of increased compensation to the watering cart contractors be given careful consideration by the members of the Finance Committee when the budget is made up. The usual repairs and repainting of the carts is now in progress, and the equipment will be in first-class condition early in the Spring.

REBUILDING STREETS.

Appropriation (from Street Railway tax)		$55,480 56
Pay-roll	$21,978 29	
Teaming	2,415 00	
Hay	37 55	
Grain	627 84	
Straw	112 05	
Vitrified paving blocks and freight	15,399 87	
Lighting	166 50	
Cement	3,053 25	
Concrete stone	1,402 48	
Granite blocks, edgestone and flagging	4,807 14	
Gravel and freight	800 43	
Hardware, tools, etc.	341 24	
Pitch	251 80	
Lumber	191 01	
Bithulithic pavement	1,632 60	
Renewing asphalt	1,151 02	
Crushed stone	739 74	
Field stone	317 26	
Stone dust	18 71	
Sundries	34 62	
		55,478 40
Balance		$2 16

This appropriation represents, with the amount expended for Snow Removal treated on a previous page, the amount received from the street railway franchise tax, and so far as possible it has been used, as was the evident intent of the act of the Legislature, in the construction and repair of streets through which street railway tracks run.

Massachusetts Avenue, from Lafayette Square to the railroad crossing, and River Street, from Fairmont Street to the bridge, have been paved in a very thorough manner with the very best vitrified brick obtainable. The concrete base was made entirely of Portland cement, and every care has been taken to make the work the best of its class.

Cambridge Street from Prospect Street to Inman Square, left uncompleted last year, has been paved with large sized granite blocks.

The granite paving on the north side of Main Street, between the railroad crossing and Kendall Square, was relaid at an expense of about $2,500, $1,000 of which was paid by the Sewer Department on account of trench work which had been done there by them. The asphalt pavement on Massachusetts Avenue, between Quincy Square and Holyoke Street, has been repaired. For years this pavement has been a source of

trouble owing to the vibration of the rails under the heavy cars which are passing all the time. The ashpalt has cracked and worn until it came to need filling in places every year. To prevent this, heavy 11-inch paving blocks were laid on each side of the tracks, set solid in Portland cement concrete, with the result that much of the jar from the cars is eliminated, and the liability of the asphalt surface cracking and going to pieces is very much lessened.

Linden Street and Plympton Street, from Massachusetts Avenue to Bow Street, have narrow roadways with sharp grades, and with ordinary macadam are continually gullied out. For this reason bithulithic pavement has been laid there under a five-year guaranty. This pavement is now in such general use that it hardly needs explanation. It may simply be said that it possesses all the advantages of a smooth paved street, and is not slippery under any circumstances.

Prince Street, from Pleasant Street to Magazine Street, and a considerable part of Brattle Street was resurfaced out of this appropriation.

Assuming that it is the intention of the incoming City Government to apply the street railway tax to this class of work, I would recommend that Cambridge Street (which is now paved with granite blocks from Bridge Street to Inman Square) be constructed from Inman Square to Kirkland Street with some smooth pavement satisfactory to the abutters on the street. This section of Cambridge Street at the present time is in a deplorable condition, and we have on file two largely signed petitions for its construction during the coming year.

A beginning has been made of granite block paving on Hampshire Street and I recommend that this street be paved with granite blocks from Prospect Street to its junction with Broadway.

Mt. Auburn Street, Broadway and Garden Street are all in great need of repairs and should receive some portion of the money derived from this tax.

STREET CONSTRUCTION.

LAUREL STREET.

Appropriation		$1,904 00
Pay-roll	$805 57	
Hay	31 85	
Grain	87 72	
Edgestone	366 19	
Crushed stone	132 78	
		1,424 11
Balance		$479 89

By an order of the City Council, dated October 18, 1904, Laurel Street was accepted and widened to 30 feet. Edgestones and gutters have been set on both sides of the street and it has been macadamized the entire length. A portion of the unexpended balance will be needed for relaying vitrified brick pavement at the intersection with River Street and some necessary rolling and surfacing which the lateness of the season prevented being thoroughly done.

MADISON AND OTHER STREETS.

Appropriation		$29,600 00
Pay-roll	$11,653 67	
Teaming	1,575 00	
Hay	454 89	
Grain	320 46	
Straw	50 47	
Hardware, tools, etc.	120 99	
Edgestones	4,006 51	
Crushed stone	1,060 07	
Gravel and freight	566 00	
Field stone	733 68	
Granite paving blocks	5,827 50	
Granite flagging	141 94	
Fuel	111 07	
Gutter stone	2,427 71	
Lighting	101 53	
Bricks	427 70	
Sundries	20 25	
		29,599 44
Balance		$0 56

When the present Superintendent of Streets was appointed, the budget for the year 1904 had been made up and submitted to the Finance Committee. The budget contained no reference whatever and made no provision for the construction of streets which had been accepted during the year 1903, and it was not until the general work was fairly under way, that these matters were brought to his attention by appeals from property owners living on the streets for their construction. It was then discovered that the following eight streets had been accepted during 1903. They were nearly all of them in almost impassable condition, and it was imperative that they should be put in good order. Accordingly Mr. Pierce, the City Engineer, was requested to make estimates for the construction of the streets, including edgestones, gutters and thorough macadamizing. The aggregate of the figures submitted by Mr. Pierce for the construction of these streets was $29,394. These figures were submitted to the City

Council and an order making an appropriation for $29,600 for this purpose was passed. The streets and their dates of acceptance are as follows: —

Royal Avenue, December 27, 1902.
Yorktown Street, May 20, 1903.
Madison Street, October 28, 1903.
Pioneer Street, December 3, 1903.
Rutland Street, December 24, 1903.
Stearns Street, December 24, 1903.
Van Norden Street, December 24, 1903.
Wilbur Street, December 24, 1903.

All of the above streets were constructed in the manner provided for in the estimates. Edgestones and gutters were built, the streets were macadamized in a thorough manner, and on one of them (Yorktown Street) brick sidewalks were laid on both sides the entire length. Upon their completion there remained a balance of nearly $10,000, and, under author ity granted by the City Council, Third Street, from Charles Street to Binney Street, was paved with first-class granite blocks, and Magoun Street, in the northern part of the City, was resurfaced its entire length.

SOMERVILLE AVENUE AND OTHER STREETS.

Appropriation		$15,227 65
Pay-roll	$4,930 46	
Teaming	1,017 50	
Hay	206 04	
Gravel and freight	156 01	
Granite flagging	299 97	
Edgestone	60 06	
Lighting	30 85	
Crushed stone	203 01	
Granite paving blocks	8,323 20	
		15,227 10
Balance		$0 55

This appropriation was expended for paving Somerville Avenue on the north side from White Street to the Somerville line, Webster Avenue from Cambridge Street to the Somerville line, Hampshire Street from Prospect Street to Inman Square, and Inman Square. A small amount of macadamizing on Warland and Clifton Streets left uncompleted last year was also finished out of this account. The streets have been paved with first-class large sized Rockport granite blocks and are now in excellent condition.

WYETH SQUARE.

Appropriation		$1,000 00
Pay roll	$665 75	
Hardware, tools, etc.	5 25	
Gravel and freight	16 00	
Crushed stone	98 25	
Field stone	196 19	
Fuel	8 00	
		989 44
Balance		$10 56

This amount was expended for grading up and macadamizing the square in front of the new engine house. The work was done late in the season and will require some rolling and surfacing early in the spring.

ACCEPTED STREETS.

The following table shows streets laid out and accepted from Dec. 1, 1903, to Dec. 1, 1904, giving location, length and width of street, date of acceptance and plan: --

STREETS LAID OUT AND ACCEPTED, DECEMBER 1, 1903, TO DECEMBER 1, 1904.

Location of Street.						Plan.	
Name.	From	To	Length in Feet.	Width in Feet.	Date of Acceptance.	Made by	Date.
Laurel street.	Pleasant street	River street	300	30	Oct. 19, 1904	City Engineer	May 9, 1901
Pioneer street	Main street	Broadway	250	30	Dec. 3, 1903	City Engineer	June 3, 1903
Rutland street	Shepard street	Langdon street	336	40	Dec. 24, 1903	T. Howard Barnes	June 10, 1902
Stearns street	Sherman street	Passageway	300.8	40	Mar. 3, 1904	W. A. Mason & Son	June 5, 1903
Van Norden street	Middlesex street	Yerxa road	339.5	40	Dec. 24, 1903	W. A. Mason & Son	June 4, 1903
Wilbur street	Harvey street	Southerly	409.7	40	Dec. 24, 1903	W. A. Mason & Son	June 6, 1903

Total length of accepted streets December 1, 1903, 96.808 miles.
Total length of streets accepted from December 1, 1903, to December 1, 1904, 1,936 feet or .367 miles.
Total length of accepted streets December 1, 1904, 97.175 miles.

PERMITS ISSUED.

The issuing of permits for board walks, sale of goods on sidewalks, opening and obstructing streets and sidewalks, building and repair of granolithic sidewalks and other purposes has grown to be an important feature in the work of the office.

OPENING PERMITS.

To Whom Issued.	Number Issued.
Boston Elevated R. R.	46
Cambridge Gas Light Co.	347
Cambridge Electric Light Co.	115
Metropolitan Water and Sewerage Board	2
New England Telephone & Telegraph Co.	42
Sewer Department	50
Water Department	19
Drain layers	210
Miscellaneous	20
Total issued	851

OBSTRUCTION PERMITS.

Tar kettle contractors	78
Miscellaneous	258
Total issued	336

ARTIFICIAL STONE SIDEWALKS.

Simpson Brothers Corp.	11
Warren Brothers Co.	2
George H. Lowe	5
Total issued	18

SELLING GOODS ON SIDEWALKS.

Number of permits issued	54

BOARD WALKS.

Number of permits issued	117

PRIVATE STEAM ROLLER PASSING THROUGH PUBLIC STREETS.

Number of permits issued	6

RECOMMENDATIONS.

The following recommendations are respectfully submitted as being among the most important things concerning the Street Department

which ought to receive attention this year, but they do not by any means comprise an enumeration of what might be fairly called the actual necessities of the City in relation to its streets. It is recommended that the following streets be paved in a thorough manner with first-class granite blocks : —

Third Street, from Binney Street to the Broad Canal.
Charles Street, from Third Street to First Street.
Sixth Street, from Gore Street to Cambridge Street.
Warren Street, from Cambridge Street to the Somerville line.
Sidney Street, from Franklin Street to Massachusetts Avenue.
Hampshire Street, from Prospect Street to Broadway.

The vitrified brick pavement on Brookline Street should be continued at least as far as Putnam Avenue, and if it will not interfere with the plans for the construction of the new Brookline Street bridge, it should be continued to Henry Street.

CONCORD AVENUE WIDENING.

For many years the widening of Concord Avenue, between Arsenal Square and Huron Avenue has been urged. For various reasons it has been put off from year to year until now it is imperatively necessary that something should be done. The location of the street railway tracks on this narrow street renders its maintenance as a macadamized road expensive and impracticable. A plan has already been approved by the Board of Survey recommending the widening of this street from Waterhouse Street to Huron Avenue, by the removal of encroachments, to fifty feet, and from there on to the Belmont line from fifty to sixty feet. If the street can be laid out to that width, it should be paved with some such pavement as either bitulithic or vitrified brick. The avenue is a main artery leading through Cambridge to Belmont and towns beyond and public necessity and convenience demand its being given immediate attention. It may be stated here that it is the purpose of the town of Belmont to widen the portion of this highway within its limits to 100 feet, and Cambridge may profitably consider the advisability of doing the same thing from the Belmont line to the railroad crossing, especially in view of the fact that the City already owns all the land on one side of the street, between these points, and that the widening on the other side of the street would interfere with but one building.

MAIN STREET.

Main Street, from Lafayette Square to the bridge, is in very bad condition. The old-fashioned granite block paving has been down there a

very long time and is rough and uneven nearly the entire distance. If the approach to the new bridge is to be constructed so that it will be in use at any time during the coming year this street must be put in proper condition. Unless it is decided just what form of street railway traffic is to come over it I should not recommend any very great expense this year.

EQUIPMENT.

During the year two of the department horses have died, two have been sold, and seven have been purchased.

The harnesses in the department are in a deplorable condition. They need a thorough overhauling and some new ones should be purchased. This matter should be taken into account in making up the annual appropriations.

OTHER RECOMMENDATIONS.

I am glad to renew the following recommendations contained in the annual report of my immediate predecessor, believing that they are all for the best interests of the City : —

"SUBWAY UNDER FITCHBURG RAILROAD TRACKS.

The building of a subway under the tracks of the Fitchburg Railroad from the City Yard to Rindge Field is recommended, as the railroad tracks divide two sections in this district, where residents have common business and social interests. The City has purchased and laid out Rindge Field for park purposes, yet this playground is shut out to some because of its inacessibility, although close at hand. Residents employed on one side and residing on the other side of the railroad are obliged to climb fences in order to cross the tracks, unless they wish to take a roundabout course. Children going to school would be especially benefited by the proposed improvement. At present they jeopardize their lives climbing the fences and crossing the railroad tracks. The safety and convenience of the public demand the building of this subway."

"BOLTON STREET.

This is a private way extending from Sherman Street to the Raymond Street Yard of the Street Department. This street is very largely used by City teams and is otherwise an important thoroughfare. Its acceptance and widening is recommended. At present, if a steam roller is needed in the western and northern sections of the City it is compelled to

travel 4,200 feet to reach a point only 650 feet distant, as it is impossible to take a steam roller through this private way. At times this road is so impassable that all our teams must take a roundabout course, causing the loss of much valuable time."

"PURCHASE OF A STONE LEDGE.

The best interests of the City demand the purchase of a stone ledge. At the beginning of the year there was included in the annual estimates $12,000 for the purchase of a ledge, but the City Government decided against the proposition. The streets of Newton and Brookline to which attention has often been called are of a high standard because both municipalities own a ledge of suitable stone. The macadamized streets of these places having a uniform degree of hardness wear uniformly even, without cradle-holes caused by the presence of soft stone placed alongside harder material. Soft stones being unable to stand the wear as well as the harder material crumble away and cradle-holes are the result. This condition of affairs can only be remedied by the purchase of a suitable ledge. The investment will unquestionably prove profitable and it is strongly urged that the City Council give the matter early and serious attention."

INVENTORY OF REAL AND PERSONAL PROPERTY.

REAL ESTATE.

Location.	Buildings.	Erection of Buildings.	Purchase of Land.	Feet or Acres of Land.	Valuation of Land.	Valuation of Buildings.
Raymond St.....	City Yard and Stable, stable, sheds, scales, etc.	1897	1896	272,670	$27,000	$27,000
Hampshire St...	City Stable, sheds and scales, including old police station	1885	.....	72,661	30,000	16,000
E. S. Norfolk St..	Yard and pound.....	.....	.....	39,600	12,000	.....
River St.....	Yard and wharf.....	.....	.....	.....	.....	17,000*
Acton, Mass.....	Land, gravel bank	.....	1896	41,546	7,000	.....
					$76,000	$60,000

* Includes valuation of land.

Total valuation of real estate..... $136,000 00

Carried forward 136,000 00

Brought forward	$136,000 00

PERSONAL PROPERTY.

72 horses	$6,500 00	
51 watering carts	12,500 00	
48 single and double carts	4,200 00	
83 sets harnesses	2,000 00	
Miscellaneous buggies, sleighs, pungs, plows, wagons, etc.	2,500 00	
5 bicycles	150 00	
4 steam-rollers	7,000 00	
1 two-horse section-roller	125 00	
Miscellaneous tools, road machines, pick-up sweepers, scrapers, brooms, waste barrels, push carts, etc. .	8,200 00	
Stone-crushing plant, Raymond Street . . .	5,500 00	
Stone-crushing plant, Hampshire Street . . .	6,000 00	
8 Shadbolt ash carts	2,500 00	
2 Watson carts	350 00	
Miscellaneous lumber, iron, oils, etc.	1,500 00	
14.6 feet straight edgestone	8 03	
34.5 feet circle edgestone	25 18	
50,000 granite paving blocks, seconds	1,250 00	
80 square yards gutter stone	76 00	
700 sidewalk bricks	9 10	
505 tons crushed stone	497 43	
723½ tons field stone	542 63	
25 tons coal	115 00	
2,500 vitrified bricks	762 50	
33.5 feet granite flagging	25 46	
17 barrels Rosendale Cement	17 00	
		62,353 33
		$198,353 33

I gratefully appreciate the confidence reposed in me by His Honor, the Mayor, and acknowledge the valuable advice and assistance given me by the Committee on Highways and members of the City Council. I wish also to extend my thanks to all those who have co-operated with me in the effort to make the past year a successful one in the Street Department.

Respectfully submitted,

GEORGE M. CLUKAS,
Superintendent of Streets.

REPORT OF THE TRUSTEES OF THE CAMBRIDGE PUBLIC LIBRARY

To the Honorable, the City Council of the City of Cambridge: —

The trustees of the Cambridge Public Library respectfully submit their forty-seventh annual report, covering the year ending November 30, 1904.

For details in the administration of this department, the trustees draw your attention to the summary of the year's work contained in the report of the librarian. In addition to a watchful care over these details, the trustees have persistently sought to increase the efficiency of the library. To do this it is fairly evident that the interest of the people must be aroused and a demonstration of the advantages which the city freely offers to all must be made in every home. Besides it is necessary that your honorable body and all philanthropic citizens shall from time to time be informed of the increasing importance of the work intrusted to us and their generous co-operation solicited. Guided therefore by the direction contained in the city ordinances, that the trustees shall "extend the benefits of the institution as widely as practicable throughout the community," two new avenues of usefulness, viz., co-operation with the work of schools, and traveling libraries, were suggested in the last annual report of this department. These suggestions were favorably received by members of the City Council and by the public at large and as a result the present year witnesses an advance in library work which promises much in the near future.

The most important development and, when measured by its possible results, the most beneficial work of the library, is that which may reasonably be expected from co-operation with the schools. For the past fifteen years the school committee has repeatedly expressed the wish that some arrangement might be made, whereby the facilities of the library might be more generally used by school children. By the appointment during the present year of a special assistant to take charge of this work, the trustees of the library have recognized in a practical way the importance of this line of work. The results, in so far as they are evident at this time, show conclusively the wisdom and the great possibilities of the plan. On the part of the school children the re-

sponse has been immediate and practically overwhelming, while on the part of the library the supply of suitable books has been nearly exhausted. The trustees are confident, therefore, that this legitimate and overwhelming demand will appeal strongly for special consideration on the part of the city council in order that the needs of the school children may in reasonable measure be satisfied.

The so-called traveling libraries, although in use at the local delivery stations but a part of the year, have already demonstrated their value. The limited appropriation granted for this purpose has up to the present time prevented the extension of this feature to associations, churches, clubs, etc. It is, however, the desire of the trustees to increase largely the number of such traveling libraries, inasmuch as they supply without delay the requirements of those who live at some distance from the main library.

The continued success of the East Cambridge branch library is gratifying to the trustees. It should not be forgotten, however, that increased patronage entails depreciation in the condition of the books, even when they are properly cared for. Additional expenditure for binding and renewals will therefore be necessary during the coming year. The frequent crowding of the branch, especially in the evening, calls for the appointment of an extra attendant to preserve order or to take charge of the issue of books. The trustees again recommend that the appropriation for the branch include a sum sufficient for the removal of the platform at the west end of the room, and also for the laying of a new floor. The former is an incumbrance, the latter a necessity.

In January our librarian, William L. R. Gifford, severed his connection with the library to accept a similar position at the St. Louis Mercantile Library Association. The vacancy thus made has been filled by the appointment of Clarence W. Ayer, librarian of the Brockton public library. In addition to a wide experience, Mr. Ayer brings a progressive spirit and a hearty interest in all the varied aspects of library work. In June Miss Alice O'Brien was appointed in charge of the children's room. Much of her time will be devoted to fostering a taste for good reading among school children. Apart from the changes just noted, the staff remains the same and the trustees gratefully record their appreciation of the service rendered during the year.

The progressive increase in the purely clerical work necessary to the efficient conduct of the library urgently calls for the appointment of a clerk who shall also have the qualifications of a stenographer and typewriter. Such work at present is done by some member of the staff who must be temporarily removed from the regular work of the library. As there are no substitutes to fill vacancies, the public service is to this

extent embarrassed The librarian reports the need of a new cataloguer to meet the demands created by traveling libraries and school work.

The necessity of branch libraries, particularly in the neighborhood of Lafayette Square and in the northern section of the city, is again urged upon the attention of the city council. The ward-room of the old engine house in ward eleven, now used only as a voting place, might without great expense be made suitable for library purposes. Its situation is central, and with proper furnishings, books and periodicals, the present needs of that locality might be satisfactorily met.

The trustees have been informed this year that an addition to the trust funds of the library will be made by a legacy from the late James A. Woolson, amounting to $5,000, the income to be used for the purchase of books which shall be designated by a special book-plate. The trustees hope that this is but the first of many such gifts in the near future.

The retirement from the board of trustees of Thomas Wentworth Higginson, after a service of many years during which he gave freely to the city the results of his intimate acquaintance with and discriminating taste in books, seemed to call for some acknowledgment on the part of his associates. Accordingly, in grateful recognition of the library's indebtedness to him and by vote of the trustees, an alcove in the genealogical room has been set apart and designated The Thomas Wentworth Higgginson Alcove. The library is further indebted to Colonel Higginson for a beautiful portrait of himself and this has been given a place in the Memorial room. Colonel Higginson was succeeded on the board by George F. McKelleget, and Dr. Fitzsimons, representing the school committee, by William Taggard Piper.

Signed :

EUGENE A. McCARTHY,
WILLIAM TAGGARD PIPER,
JOHN BUCKLEY,
J. HENRY DUCKREY,
GEORGE F. McKELLEGET,
ALBERT M. BARNES,
EDWARD C. WHEELER,
} *Trustees.*

REPORT OF THE LIBRARIAN

CAMBRIDGE, MASS., November 27, 1904.

To the Trustees of the Cambridge Public Library : —

GENTLEMEN : — I herewith submit the following report of the work of the library for the past year.

ADMINISTRATION.

In the resignation of Mr. Gifford as librarian, which took effect in January, following his acceptance of the position as librarian of the St. Louis Mercantile Library Association, the library lost the services of one of the ablest men in the profession. In the interval before my coming Miss Russell, the head assistant, served as acting librarian, and after my coming rendered me invaluable assistance in many administrative details. New conditions and demands have since made the time opportune for important changes in several branches of the service. It is the record of these changes that will naturally take more space than that of the growth and development of the library in its usual way.

MAIN DELIVERY ROOM.

In the delivery room two changes are especially worthy of note: the removal of the newspaper racks and files, and the increase of space for books to be placed outside the stack. The two sections of open shelves which have been added to the delivery room have doubled the supply of books directly accessible to the public. On these shelves are placed the more recent, popular books, in order according to subject, and also books on special topics, old as well as new. Among the special topics have been Outdoor sports and Hunting and fishing, chosen for the summer, Louisiana Purchase, Russia, and Japan. It is proposed to add, with the new fiscal year, groups of books forming "Rotation lists," so-called, chosen in order by topic, old as well as new. By a special arrangement the books bearing the current date are brought together on the open shelves, in two groups, fiction and non-fiction, the latter also subdivided by classes. By this arrangement the borrower can tell at a glance, without consulting the desk assistants, which of the latest books may be in. The popularity of the latest fiction is shown by the empti-

ness of the shelf reserved for it, there being seldom more than five books on the shelf at one time, and often none at all. On the other hand the fulness of the shelves for non-fiction shows clearly, by comparison, that the public taste is hard to direct. In order to encourage the use of books not fiction, a second card, of a different color, excluding fiction, is issued to all borrowers wishing it.

NEWSPAPERS IN THE MEMORIAL ROOM.

The removal of the long case of autographs and pamphlets from the outer to the inner Memorial room was found to be almost the only change necessary to provide ample space for the newspaper racks and files, without interfering, at the same time, with the use of the room for its former special purpose. In fact, the valuable autograph case has now a much better light than before, from the high windows of the inner room. The opening of the double doors on the side of the main entrance to the delivery room has not only added to the attractiveness of the main entrance, but also induced some to visit the Memorial rooms, through the medium of the newspapers, who had never been there before. The only other equipment necessary for this cordially welcomed change was the purchase of a dozen chairs.

LOCAL AND SCHOOL DELIVERY ROOM.

The most considerable expense was incurred in fitting up the empty room at the end of the stack for the local and school delivery and for a general work room. Those parts of the service had previously been confined to the children's room, at desks within railings along its east side. The old lift in the basement was reset in a corresponding position below the new room. The change has been advantageous to both the children's room and the work in the new room. The excellent light from the high windows makes the new room especially attractive in mild weather, but the problem of heating it in cold weather may be difficult to solve. Even now the room is too small, much of the repair work being done at a large desk placed just outside one of its doors, in a corner at the end of the stack. The other corner will soon be needed, as the work increases.

CHILDREN'S ROOM.

In June the children's room underwent several important but easily made changes. By the insertion of an extra line of shelves around the room, by the transfer of the back numbers of the unbound periodicals to

shelves inside the stack, and by the removal of the local and school delivery and other work to the new room at the end of the stack, space was gained sufficient to hold all the juvenile books. These have been taken from the stack and arranged in order, according to subject, fiction occupying the shelves along the inner wall and all other books the outer wall. Free access to these shelves is now permitted and the books are charged and discharged directly from the assistant's desk at the inner end of the room. For greater convenience to the very young children three more long and low tables, seating eight children each, in smaller and more comfortable chairs, have been provided and the other tables and chairs cut down. All these changes were at once welcomed by the children. Throughout the summer the attendance in the children's room averaged larger than that of the main reading room, and throughout the fall the increase has been constant, reaching its height during the past two weeks, owing to a special cause to be described below. The open position of the end of the children's room adjoining the main reading room is objectionable for obvious reasons. An adequate remedy would be the closing in of both open arches by partitions of wood and glass, corresponding to those at the other end of the room, next the office, but the expense would be considerable.

EAST CAMBRIDGE BRANCH.

The continuous, rapid growth of the East Cambridge branch is abundant witness to the wisdom of the increase of appropriation for the past year, and to the good work being done through the branch for that portion of the city. The assistant in charge, Miss Mary Curtis, brings to her work a wide acquaintance with the people of her community, especially with the children, and an active interest in meeting their needs as they arise. To this fortunate combination is due a large measure of the success of the branch. A considerable interest in art has been awakened, during the last half year, by the exhibitions of photographs, loaned in sets by the Library Art club, of which the branch has itself become a member. For their better display in the room a large double screen of my own designing was obtained. In the fall the walls of the rooms were adorned with eight new and large-sized photographs, two of them in color and the two largest being of the Capitol at Washington and the Sir Galahad, reproduced from the painting by Watts-Dunton. Of the additions of books the most important has been a set of the New International Encyclopædia in the latest edition in twenty volumes. In April was placed on the shelves a new supply of children's books, which have been in great demand. The popularity of this branch is a

source of great satisfaction to all, and ought to make more and more evident the similar need in other parts of the city, notably Lafayette Square and North Cambridge.

CO-OPERATION WITH THE SCHOOLS.

A vigorous attempt has been made during the last half of the year in the direction of closer co-operation between the work of the library and that of the schools. Certain of the grammar schools have been found to take little interest in this work, as compared with certain other schools which have been active users of the library books, as the figures of their circulation show, the Harvard and the Putnam schools leading. A new start was made in April, in the purchase of a considerable supply of new books for direct use in connection with the schools, but these did not become available for all the schools until fall. The most important step in this matter was taken in the appointment in May of a new assistant, Miss Alice O'Brien, a native of Cambridge and a graduate this year of Boston University, to take charge of the children's room and of the special work of visiting the schools in the interest of the library. As a further means of stimulating interest in this work of co-operation short informal talks on the use of the library and of the children's room have been given by the librarian and Miss O'Brien in all the grammar schools of the city, exclusive of the primary grades. The first of these talks was given in the new Kelley school by request of its principal, Mr. Getchell, just before the close of the last school year. In the fall the request for further co-operation made by the board of trustees led to the appointment by the school committee of a special committee of three, consisting of Mr. Adams, Mrs. Chase, and Rev. Mr. Walker, to confer with the special committee of the library, consisting of Mr. Piper and the librarian. As the result of their meeting and of a meeting with the masters of the grammar schools arranged by Superintendent Cogswell, the special talks before the pupils were given. All expectations have been exceeded. Not only did the talks seem welcome to the pupils in the school rooms, but they induced many to come to the children's room of the main library from long distances, partly to pay a visit and partly to take out new cards and books. On Saturdays especially the children's room has been over-crowded, and the increased demand for books has left the shelves, at times, almost empty. The books most wanted could not be supplied, and the circulation suffered accordingly, the original stock being many times insufficient. This condition applies equally well to the special collection of school duplicates, which is now being given a place at the end of the stack for the exclusive use of

teachers in this work. The pressure can be adequately relieved in only one way, by the immediate purchase and circulation of a large number of books, new and old. In this way only can co-operation between library and schools succeed and be placed on a permanent basis. The need of a larger appropriation to meet this special demand becomes more and more evident.

LOCAL DELIVERY STATIONS.

The usefulness of the local delivery stations is shown by the figures for circulation in Appendix I. Most of the stations have large gains to their credit, the circulation more than doubling that of last year. It is to be borne in mind, however, that the local stations were not reopened last year until April. Mr. Hunnewell's station leads with 5,932; Mr. Dow's comes next with 2,368; Mr. Lombard's, Mr. Gove's, Mr. Martin's and Mr. Nelson's follow close together in the next group; Mr. Murphy's and Miss Phillips's form another group, with about triple increases; St. Paul's Settlement shows the largest proportion of increase (98 to 328); Mr. O'Donnell's and Mr. Lynch's are at the foot of the list with surprisingly small showings. Most of these local delivery stations have abundantly proved their right to stay, and promise increased usefulness if they are given an adequate supply of books as requested. For convenience of distribution duplicates of new and popular books are being reserved at the main library, through which borrowers at the local stations can be assured of a fair proportion of the books most in demand.

TRAVELING LIBRARIES.

The newest feature of the work of the year is the so-called "traveling library." Within the last two months nine lots of books, numbering fifty volumes each, have been sent to as many local delivery stations. The choice of books for each lot was divided evenly between fiction and non-fiction, and it comprised a representative selection of popular books on all subjects, old as well as new. After these lots have run their course in their present places, they will all be exchanged and "travel" to other stations. It is intended to add, within a short time, three more lots, and send them to the three remaining stations. These "traveling libraries" are designed not only to provide the stations with good reading of a popular kind, but also to supplement the work of the local delivery in such a manner as to afford some sort of recompense for failures on the part of borrowers to get from the main library, through the regular local delivery, the book or books for which they may have, from time to time, sent. Each lot is to be considered separate from the books sent through

the local delivery, and to be separately charged on slips, without cards, except for identification. Their welcome was immediate and cordial. Within a short time three stations were calling for more books. These, unfortunately, could not be supplied, owing to lack of duplicates at the main library and to the necessity of first sending lots to the remaining stations. To the president and the librarian, as a special committee, were intrusted the details of establishing these "traveling libraries." It is intended that their usefulness shall not stop with the local delivery stations, but that it shall reach out, in course of time, to clubs, societies, fire stations, churches, and other organizations. They have proved to meet, in part at least, a long-felt want and serve to indicate another avenue of opportunity for the library and another call for a larger appropriation.

GIFTS AND BEQUESTS.

The most important news of the year under this heading is the bequest, amounting to $5,000, made to the library in accordance with the terms of the will of the late James A. Woolson, the income thereof to be devoted to the purchase of books under the direction or at the suggestion of his daughter, Eda A. Woolson, since become the wife of Dean Hurlbut, of Harvard College. The formal announcement of the bequest to the trustees by the executors has just been received. Like the Prentiss bequest, first announced two years ago, and available last year, this new bequest will, when it becomes available, aid materially in the purchase of special books for the library, and in enlarging the scope of choice among the finer and more expensive books which might seem desirable acquisitions for the library, and yet which it might not seem advisable to charge to the account of the city appropriation.

Of the gifts of books the most considerable came from the estate of James Chaplin Fisk, on Quincy St., including, among fine editions of some of the standard English poets, a set of Justin Winsor's Narrative History of America, a duplicate of which was needed.

The transfer of the Wyman collection of medical books to the Boston Medical Library, in accordance with the terms of the arrangement previously made, was effected in April, after continuous work of preparation by several assistants for nearly three weeks, which was in charge of Mr. Thayer of our staff. The room at the head of the staircase to the left of the main entrance to the library, in which the medical collection has been deposited since it was given to the library, is now available for another purpose, but its small size limits its usefulness. It could well be made an art and music room, open at special hours under the care of an attendant.

CIRCULATION.

The statistics of circulation, expenditures, etc., may be found in the usual appendices. The total circulation of 192,356 shows a creditable increase of 20,201 over that of last year, the large increase in the East Cambridge branch and the local stations being needed to offset the small decrease of 4,782 at the main library. The figures for the circulation from the children's room beginning June 23, 13,823, are disappointing in that they fail to represent what the circulation might easily have reached, if there had been an adequate supply of juvenile books. It is to be recognized, also, that many children, especially those living in the immediate neighborhood, often come to the library only for the magazines, illustrated books, and the stereoscopic views, of which there are now nineteen sets, in almost constant use. This is necessarily the case with the crowds of very young children who come on Sunday, because the circulation is closed on that day. With adults, too, the use of the extra card for non-fiction is not conducive to any considerable increase in circulation, for the reason that the classes of books to which it is restricted can be read less quickly than fiction, and consequently are exchanged less frequently. This circumstance offers no objection to the two-card system, but points, on the contrary, to an increasing use of the more serious kinds of reading.

STAFF.

The staff remains the same as last year with the exception of the addition of Miss O'Brien. Miss Smith returns to her work as assistant cataloguer, and her place as reference librarian has been taken by Miss Brooks. With the present staff the pressure of the work in the cataloguing room can be relieved only by calling off other members of the staff from their own appointed work, often to the disadvantage of the whole service. The next need is a trained cataloguer. The increase of circulation through the local delivery has borne heavily upon those who have direct charge of it, and the expected increase of the school circulation will add to the same burden.

In conclusion I am eager to express my gratitude for the cordial support that has been given me by the board of trustees and by the members of the staff during the eight months of my service as librarian.

Respectfully submitted,

CLARENCE W. AYER,
Librarian.

APPENDIX I

GENERAL STATISTICS.

Total number of volumes in the library	66,177
Volumes added during 1904	4,632
Volumes condemned	1,635
Duplicates exchanged	1
Volumes destroyed on account of contagious diseases	12
Volumes lost, main library	67
Volumes lost, East Cambridge branch	18
Volumes bound	2,780

CIRCULATION.

	Main library, including children's room.	Local, including branch library.	Schools.	Total.
First Quarter	30,479	15,748	3,894	50,121
Second Quarter	32,933	15,856	3,913	52,702
Third Quarter	27,377	12,366	.....	39,743
Fourth Quarter	30,491	14,842	4,457	49,790
Total	121,280	58,812	12,264	192,356

Average per day (Main library)	408
Largest issue (Main library), Jan. 23	794
Largest issue (Local stations), Nov. 19	245
Smallest issue (Main library), June 24	200
Teachers' books drawn directly from library	3,258

CLASSIFIED CIRCULATION (MAIN LIBRARY).

Classes.	General Works.	Philosophy.	Religion.	Sociology.	Philology.	Science.	Useful Arts.	Fine Arts.	Literature.	History.	Biography.	Fiction, including juvenile fiction.*	Current Magazines.	Total.
Circulation	3,505	1,337	1,359	2,786	368	2,154	2,109	3,595	7,122	8,477	4,184	65,161	5,300	107,457
Per cent.....	.033	.012	.013	.026	.003	.020	.019	.034	.066	.079	.039	.607	.049	1.000

* Before June 23.

CLASSIFIED CIRCULATION (CHILDREN'S ROOM).*

Classes.	General Works.	Philosophy.	Religion.	Sociology.	Philology.	Science.	Useful Arts.	Fine Arts.	Literature.	History.	Biography.	Fiction.	Current Magazines.	Total.
Circulation..	49	2	67	74	7	168	65	118	171	676	89	12,294	43	13,823
Per cent.....	.004	..	.005	.005	..	.012	.005	.009	.012	.049	.007	.889	.003	1.000

* Beginning June 23.

SCHOOL DELIVERY.

Name of School...	Ellis.	Harvard.	Kelley.	Morse.	Peabody.	Putnam.	Roberts.	Russell.	Shepard.	Sleeper.	Taylor.	Thorndike.	Webster.	Wellington.	Vacation Schools.	Total.
Books delivered..	797	2,867	1,201	642	1,058	2,308	848	741	198	334	172	362	42	614	80	12,264

LOCAL DELIVERY.

(Including East Cambridge Branch and Traveling Libraries.)

Local Stations and Branch.	Dow.	East Cambridge.	Gove.	Hunnewell.	Lombard.	Lynch.	Martin.	Murphy.	Nelson.	O'Donnell.	Phillips.	St. Paul's Settlement.	Yerxa.	Deposit Collections.	East Cambridge branch.	Traveling Libraries*	Total.
Books delivered..	2,368	521	1,821	5,932	2,001	157	1,819	1,434	1,913	135	1,345	328	798	2,538	35,057	845	58,812

* Beginning October 10.

ADDITIONS (INCLUDING REPLACED BOOKS.)

Source.....	City appropriation.	Citizens' subscription fund.	Cummings fund.	Fay fund.	W. E. Saunders fund.	Gifts.	By exchange.	Total.
Books.....	4,300	23	20	9	55	224	1	4,632

APPENDIX II

AMOUNTS RECEIVED BY THE LIBRARIAN AND DEPOSITED WITH THE CITY TREASURER.

	Fines.	Catalogues.	Duplicates, etc.	Paper stock, etc.	Total.
December-February	$166 73	$1 65	$0 50	$5 10	$173 98
March-May	164 30	90	.....	6 65	171 85
June-August	131 76	1 05	3 13	1 65	137 59
September-November	131 12	.....	.....	1 75	132 87
Total	$593 91	$3 60	$3 63	$15 15	$616 29

CITY APPROPRIATION.

Salaries.

Appropriation (by transfer decreased from $9,200.00)	$8,950 00
Expended	8,943 08
Amount unexpended	$6 92

General Expenses.

Appropriation (by transfer increased from $9,500.00)	$9,750 00

Expenditures.

Binding	$1,098 07	
Books and periodicals	4,357 88	
Bulletin	360 00	
Fuel	706 50	
Furniture	185 03	
Incidentals	313 97	
Insurance	432 00	
Lighting	845 19	
Local stations	989 00	
Printing, postage and stationery	356 43	
Repairs	103 78	
		9,747 85
Amount unexpended		$2 15

APPROPRIATION FOR EAST CAMBRIDGE BRANCH LIBRARY.

Salaries.

Appropriation (by transfer decreased from $800.00)	$757 00
Expended	756 64
Amount unexpended	$0 36

General Expenses.

Appropriation (by transfer increased from $1,000.00)	$1,043 00

Expenditures.

Binding	$110 95	
Books and periodicals	685 53	
Furniture	22 76	
Incidentals	120 51	
Lighting	91 55	
Repairs	11 15	
		1,042 45
Amount unexpended		$0 55

FUNDS OF THE TRUSTEES.

Citizens' Subscription Fund.

Balance, December 15, 1903		$87 24
Interest on daily balances		3 02
Interest on bonds		220 00
Cash gifts, credited to this fund		43 00
		$353 26

EXPENDITURES

Cambridge Trust Co.	$10 00	
Cunningham Bros.	20 00	
Richard Hodgson	5 00	
Little, Brown & Co.	41 00	
Library Art Club	5 00	
George L. Bradlee	108 55	
George E. Littlefield	57 19	
E C. Towne	5 00	
Library of Congress	17 50	
		269 24
Balance on hand, December 10, 1904		$84 02

Cummings Fund.

Balance, December 15, 1903		$59 43
Interest on bond		80 00
		$139 43

EXPENDITURES.

Little, Brown & Co.	$61 93	
George E. Littlefield	12 00	
George H. Polley & Co.	51 00	
		124 93
Balance on hand, December 10, 1904		$14 50

Fay Fund.

Balance, December 15, 1903		$31 52
Interest on bond		35 00
		$66 52

EXPENDITURES.

George E. Littlefield	$12 00	
Little, Brown & Co.	48 60	
Medford Historical Society	2 00	
Somerville Historical Society	1 00	
		63 60
Balance on hand, December 10, 1904		$2 92

William E. Saunders Fund.

Balance, December 15, 1903		$99 95
Interest on bonds		245 00
		$344 95

EXPENDITURES.

Essex Antiquarian	$1 00	
George E. Littlefield	244 70	
Heman Howard	4 50	
Little, Brown & Co.	22 50	
		272 70
Balance on hand, December 10, 1904		$72 25

APPENDIX III

Gifts.

	V.	P.
Abbot Public Library, Marblehead		1
Aberdeen (Scotland) Public Library		1
Adelbert College, Cleveland, Ohio		1
Adriance Memorial Library, Poughkeepsie, N. Y.		1
American Congregational Association, Boston		1
Amherst College		1
Apprentices' Library Company, Philadelphia, Pa.		1
Armstrong Association, New York, N. Y.		1
Balch, Edwin Swift, Philadelphia, Pa.	1	
Bangor (Maine) Public Library		1
Barnard College, New York, N. Y.		1
Bartlett, John	1	17
Batchelder, Isabel	1	
Bates College, Lewiston, Maine		1
Bigelow Free Public Library, Clinton		1
Billings, John Davis	2	
Birmingham (England) Free Libraries		2
Boston, City of		1
Boston Athenæum		1
Boston Public Library	1	1
Boston Record Commissioners	3	
Boston University		1
Bostonian Society		1
Bowdoin College, Brunswick, Maine		2
Brandon, Edward J.	17	
Bronson Library Fund, Waterbury, Conn.		1
Brookline Public Library		1
Brooklyn (N. Y.) Public Library		3
Brown University, Providence, R. I.		3
Bryn Mawr (Pa.) College		2
Cambridge, City of	3	
Cambridge:—		
Avon Home		1
Cantabrigia Club		1
Mount Auburn Cemetery		1
Young Women's Christian Association	1	
Canton, Town of		1
Carnegie Library, Pittsburg, Pa.		1
Carnegie Public Library, Nashville, Tenn.		1
Castor, T. H., Boston	1	
Champlin, Mrs. Edgar R.	2	
Chicago (Ill.) Public Library		3
Chicago and North Western Railroad Company, Chicago, Ill.	1	
Chickering and Sons, Boston	1	
Cincinnati (Ohio) Public Library		2
Clark, Alice S.	3	
Clark University, Worcester		1
Cleveland (Ohio) Public Library		1
Colorado College, Colorado Springs, Col.		1
Columbus (Ohio) Public School Library		1
Concord Free Public Library		1
Concord (N. H.) Public Library		1
Connecticut. Bureau of Labor Statistics, Meriden, Conn.		1

	V.	P.
Danforth Public Library, Paterson, N. J.		1
Davis, Andrew McFarland		2
Davis, Henry R., Providence, R. I.	1	
Dayton (Ohio) Public Library and Museum		1
Derrick Publishing Company, Oil City, Pa.	1	
Dover (N. H.) Public Library		1
Drexel Institute, Philadelphia, Pa.		4
Duluth (Minn.) Public Library		1
Enoch Pratt Free Library, Baltimore, Md.		1
First Church of Christ, Scientist, Boston	15	
Fisk, Mr. and Mrs. James Chaplain Bust	36	
Fitchburg, City of	1	
Fitchburg Public Library		2
Fitz Public Library, Chelsea		1
Fitzgerald, B. J.	1	
Fletcher Free Library, Burlington, Vt.		1
Gifford, William L. R., St. Louis, Mo.	1	
Green, E H. R., Terrell, Texas		1
Greenfield Public Library		1
Gozzaldi, Mrs. Mary I. (James)	1	
Hamilton (Canada) Public Library		1
Harrison, Carter H., New York, N. Y.	1	
Harvard Mining Club		1
Harvard University Library	3	3
Haverhill Public Library		1
Higginson, Thomas Wentworth	1	22
Holy Cross College, Worcester		2
Indian Rights Association, Philadelphia, Pa.		1
Indianapolis (Ind.) Public Library		1
International Bureau of American Republics, Washington, D. C.		1
Jewish Publication Society of America, Philadelphia, Pa.	1	
John Crerar Library, Chicago, Ill.		2
Johns Hopkins University, Baltimore, Md.		4
Kaiserlichen Universität zu Kyoto, Japan		1
Lake Mohonk (N. Y.) Conference on International Arbitration		1
Lancaster Public Library		1
Lawrence Public Library		1
Leicester Public Library		1
Leland Stanford, Jr., University, Palo Alto, Cal.		1
Leominster Public Library		1
Leyton (Eng.) Public Libraries		1
Lochman, Harriet D.	2	
Lowell Textile School		1
Lynn Public Library		1
McNamee, John H. H.	1	
Malden Public Library		1
Manchester (N H) Public Library		1
Massachusetts, Commonwealth of	38	
Massachusetts Agricultural College		1
Massachusetts Civil Service Commission, Boston		1
Massachusetts College of Pharmacy, Boston		1
Massachusetts Harbor and Land Commission, Boston	1	
Massachusetts Institute of Technology, Boston		1
Massachusetts Reform Club, Boston	1	
Massachusetts School for the Feeble-minded, Waltham		1
Massachusetts State Board of Charity, Boston		1
Massachusetts State Library		2
Massachusetts Total Abstinence Society, Boston		1
Merchants' Association of New York, N Y.	1	
Merriam. William R., Washington, D. C.	1	
Metropolitan Park Commission, Boston	2	
Milton Public Library		1

	V.	P.
Milwaukee (Wis) Public Library		1
Minneapolis (Minn) Public Library		1
Mongan, Charles E., Somerville		1
Moody, J. H., Boston		1
Mount Holyoke College, South Hadley		1
Museum of Comparative Zoölogy	3	1
Museum of Fine Arts, Boston		2
National Civil Service Reform League, New York, N. Y.		1
National Educational Association	1	1
Newark (N. J.) Public Library		1
Newton Free Library	1	1
New Bedford Free Public Library		1
New Bedford Textile School		1
New Haven (Conn) Public Library		1
New York, City of		1
New York (N. Y.) Civil Service Reform Association		1
New York (N. Y.) Public Library	1	
New York State Library School, Albany, N. Y.	2	2
Nickerson, William P.	1	
North, S. N. D., Washington, D. C.	1	
North Adams Public Library		1
Norton, Charles Eliot	2	
Norton, Sara	1	
Oberlin (Ohio) College Library		2
Odiorne, James Livermore	1	
Osterhout Free Library, Wilkes-Barré, Pa.		1
Parlin Library, Everett		1
Paterson (N. J) Public Library		1
Pawtucket (R I.) Public Library	1	
Peoria (Ill.) Public Library		1
Philadelphia (Pa.) Public Library		1
Philips Exeter Academy, Exeter, N. H.	1	
Piper, William Taggard	2	
Portland (Maine) Public Library		1
Portland (Oregon) Public Library		1
Princeton (N. J.) University	1	
Providence (R. I.) Athenæum		1
Providence (R. I.) Public Library		1
Public Reservations, Trustees of, Boston		1
Radcliffe College		2
Redwood Library and Athenæum, Newport, R. I.		1
Reynolds Library, Rochester, N. Y.		1
Robbins Library, Arlington		1
Rolfe, William John	10	
Rogers, James E.		1
St. Louis (Mo.) Mercantile Library Association		1
Salem Public Library		1
San Francisco (Cal.) Public Library		1
Scranton (Pa.) Public Library		1
Shute Memorial Library, Everett		1
Siamese Royal Commission, Louisiana Purchase Exposition	1	
Simmons College, Boston		1
Smithsonian Institution, Washington, D. C.	6	
Society of Colonial Wars in District of Columbia, Washington		5
Soldiers' Home in Massachusetts, Chelsea		1
Somerville Public Library		1
Sons of American Revolution, Massachusetts Society, Boston	1	
Southbridge Public Library		1
Springfield City Library Association		1
Sutro, Theodore, New York, N. Y.		2
Syracuse (N. Y.) Public Library		1
Tabor Academy, Marion		1

	V.	P.
Talbot Public Library, North Billerica		1
Taunton Public Library		1
Trenton (N. J) Free Public Library		1
Trinity Church, Boston		1
Trinity College, Hartford, Conn		1
Tufts College, Medford		1
Turkington, Grace A.	1	
United States: —		
Army War College Library, Washington, D. C.		1
Civil Service Commission	1	
Commerce and Labor, Department of	1	3
Education, Bureau of	2	
Geological Survey	1	
House of Representatives		1
Interstate Commerce Commission	1	
Library of Congress	6	9
Navy Department	2	1
Philippine Civil Service Board, Manila		1
Statistics of Labor, Bureau of		13
Treasury Department	1	
War Department	4	1
United States Naval Academy, Annapolis, Md.		1
University Club, New York, N. Y.	1	
University of California, Berkeley		1
University of Colorado, Boulder		1
University of Michigan, Ann Arbor		4
Vassar College, Poughkeepsie, N. Y.		1
Watertown Public Library		1
Webber, Alonzo C.	1	
Wells College, Aurora, N Y.		1
Wesleyan University, Middletown, Conn.		2
Wellesley College		1
Western Reserve University, Cleveland, Ohio		4
Westborough Public Library		1
Weymouth Public Library		1
Wilmington (Del) Institute		1
Winchester Public Library		1
Wisconsin State Historical Society, Madison, Wis.	2	2
Woburn Public Library		1
Woodman, Cyrus, Estate of	17	
Woodman, Mary	1	
Worcester Polytechnic Institute		1
Yale University, New Haven, Conn.	1	1
Yarmouth Library Association		1

Bulletins, or similar publications, have been received from the following: —

Birmingham (Eng.) Free Libraries
Boston Public Library
Brockton Public Library
Brookline Public Library
Brooklyn (N. Y.) Public Library
Carnegie Library, Pittsburg, Pa.
Cincinnati (Ohio) Public Library
Cleveland (Ohio) Public Library
Denver (Col.) Public Library
Dover (N. H) Public Library
Field Columbian Museum, Chicago, Ill.
Fitchburg Public Library
Greenfield Public Library

Haverhill Public Library
Helena (Montana) Public Library
Hyde Park Public Library
International Bureau of American Republics, Washington, D. C
Iowa College, Grinnell, Iowa
Iowa Library Commission, Des Moines, Iowa
Iowa Masonic Library, Cedar Rapids, Iowa
Leyton (Eng.) District Council Public Libraries
Lynn Public Library
Malden Public Library
Millicent Library, Fairhaven
Milton Public Library
Museum of Comparative Zoölogy
New Bedford Free Public Library
New Haven (Conn.) Free Public Library
New York (N Y.) Public Library
Osterhout Free Library, Wilkes-Barré, Pa.
Peabody Museum
St. Louis (Mo.) Public Library
Salem Public Library
San Francisco (Cal.) Public Library
Scranton (Pa.) Public Library
Smithsonian Institution, Washington, D C.
Somerville Public Library
Tacoma (Wash.) Public Library
United States :—
  Agriculture, Department of
  Geological Survey
  Superintendent of Documents
University of Illinois, Urbana
Warren County Library, Monmouth, Ill.
Wilmington (Del.) Institute Library
Worcester Free Public Library

REPORT OF THE CITY ENGINEER

OFFICE OF THE CITY ENGINEER,
CAMBRIDGE, December 1, 1904.

To the Honorable, the City Council: —

The City Engineer hereby submits his annual report, being the thirty-eighth of the department, showing the operation and expenditures of the Engineering and Sewer Departments for the year ending December 1, 1904.

A brief summary of the year's work of the Engineering Department is as follows: —

FOR HIGHWAY DEPARTMENT.

Number of street lines given	80
Number of street grades given	115
Number of streets on which paving, curb. etc., was measured	126
Number of assessments prepared	438
Number of plans or profiles prepared	13

FOR SEWER DEPARTMENT.

Number of surveys	35
Number of lines given	85
Number of grades given	360
Number of sewers measured	38
Number of sewers assessed	14
Number of sewer assessments prepared	88
Number of plans or profiles prepared	29

FOR WATER WORKS.

Number of surveys	6
Number of lines given	4
Number of grades given	21
Number of plans or profiles made	2

FOR PARK DEPARTMENT.

Number of surveys made	15
Number of grades given	30
Number of plans or profiles made	4
Number of lines given	5

FOR PRIVATE PARTIES.

Number of street lines given	40
Number of street grades given	47

MISCELLANEOUS WORK.

Number of surveys	30
Number of lines or levels given	78
Number of houses measured	350
Number of plans or profiles prepared	310
Number of conduit plans prepared	84

There are now on file in the office 8,785 plans.

FINANCIAL.

Engineering.

Appropriation, Salaries	$8,900 00	
" General Expenses	1,300 00	
Total		$10,200 00
Expended: —		
Salary of City Engineer	$3,000 00	
Salaries of assistants	5,719 57	
General expenses	905 35	
		9,624 92
Balance unexpended		$575 08

In addition to the above amount charged to salaries of assistants there have been expended and charged to departments as follows: —

To Assessor's plans	$267 62	
To Water Department	524 81	
To Park Department	880 75	
To Sewer Department	1,993 00	
To Engineering Department (as above)	5,719 57	
Total expenditure for assistants' salaries, for engineering work		$9,385 75

This amount expended for salaries may be divided into the following: —

Classification of Salaries of Assistants.

Assessors' plans. — Surveys, measurements, and work on block plans for Assessors' Department	$310 12	
Accidents. — Surveys, plans, and court attendance for Law Department	106 62	
Bridges. — Surveys, plans, examination and estimates	64 92	
Cemetery — Surveys and plans, setting out lots, etc., at Cambridge Cemetery	164 52	
General surveys and levels. — Surveys and work on section and City plans and bench leveling	400 62	
Highways. — Surveys, levels, plans, estimates, measurements and assessments for Highway Department, also lines and grades for private parties	1,629 15	
Miscellaneous. — Unclassified work for committees and departments, vacations and sickness	1,086 53	
Parks. — Surveys, lines, grades, plans and estimates for Park Department	929 50	
Sewers. — Lines, grades, plans, estimates, measurements and assessments for Sewer Department	3,096 85	
Sidewalks. — Estimates, measurements, titles and asssessments for Highway Department	109 62	
Water Works. — Surveys, lines, grades, plans and esitmates for Water Works Department	598 33	
Total		$9,385 75

STREETS.

As will be seen by reference to the annual summary, a large amount of work has been required by the Street Department in setting lines and grades, measuring work done, etc.

Massachusetts Avenue, from Lafayette Square to the Boston & Albany Railroad, a distance of about 1,680 feet, was paved with vitrified brick in the usual manner on a concrete base. It was found that the street in many parts had settled much below its established grade at which it was put when first constructed in 1891; in some places being as much as fifteen inches below the proper grade. In placing the new pavement, the surface was restored to nearly its former elevation, making a great improvement in the appearance of the street.

River Street, from Fairmont Street to the Bridge was also paved with vitrified brick laid on a concrete base, thus completing the pavement on this street.

Third Street, from Binney Street to Charles Street, was paved with granite blocks and the unpaved portions of Cambridge Street from Prospect Street to Inman Square, and Hampshire Street from Prospect Street to Inman Square were also paved with granite blocks. All these pavements were on gravel foundations.

The following is a list of the streets accepted and laid out as public ways during the year: —

STREETS LAID OUT AND ACCEPTED DECEMBER 1, 1903, TO DECEMBER 1, 1904.

LOCATION OF STREET.						PLAN.	
Name.	From	To	Length in Feet.	Width in Feet.	Date of Acceptance.	Made by	Date.
Laurel street	Pleasant street	River street	300.0	30	Oct. 19, 1904	City Engineer	May 9, 1901
Pioneer street	Main street	Broadway	250.0	30	Dec. 3, 1903	City Engineer	June 3, 1903
Rutland street	Shepard street	Langdon street	336.0	40	Dec. 24, 1903	T. Howard Barnes.	June 10, 1902
Stearns street.	Sherman street	Passageway	300.8	40	Mar. 3, 1904	W. A. Mason & Son	June 5, 1903
Van Norden street	Middlesex street	Yerxa road	339.5	40	Dec. 24, 1903	W. A. Mason & Son	June 4, 1903
Wilbur street	Harvey street	Southerly	409.7	40	Dec. 24, 1903	W. A. Mason & Son	June 6, 1903

Total length of streets accepted from December 1, 1903, to December 1, 1904, 1,936 feet or .367 miles.
Total length of accepted streets December 1, 1904, as shown in the revised list appended to this report, 99.286 miles.

Appended to this report will be found a table showing the length, width and name of every street, court and way, known to be open for public travel in this City at this time, together with data as to their acceptance by the City.

Inquiries are often received as to the status of streets, and it is hoped that this table will be found of service. By this revised list the total milage of streets is increased from that previously reported. The length of accepted streets is now found to be 99.286 miles and the length of unaccepted streets being 23.345 miles; a total of 122.631 miles.

CAMBRIDGE BRIDGE APPROACH.

The expected completion of the Cambridge Bridge the coming season, will render necessary the early construction of the approach at both ends, and also the determination of the method of bringing First Street on to the approach. General plans have already been made of this work, and an early start should be made on it in the spring.

BOARD OF SURVEY.

Ten meetings of the Board of Survey have been attended, and action has been taken on eleven plans of streets as shown by the following statement: —

LIST OF STREETS ON WHICH ACTION HAS BEEN TAKEN BY THE BOARD OF SURVEY.

Street.	From	To	Length.	Width.	Date of Approval.
Bolton street	Sherman street	Easterly	455	30	May 18, 1904
Brookford street	Massachusetts avenue	Southerly	475	40	June 22, 1904
Danforth street	Massachusetts avenue	Amherst street	241	60	June 22, 1904
Dodge street	Western avenue	Grigg street	218	30	Nov. 2, 1904
Exeter park	Massachusetts avenue	Easterly	262	35	Nov. 2, 1904
Fairview avenue	Oxford avenue	Belmont line	185	50	June 22, 1904
Francis avenue	Kirkland street	Bryant street	867	45	Nov. 2, 1904
Gurney street	Huron avenue	Fayerweather street	600	40	May 18, 1904
Massachusetts avenue	Inman street	Main street	1760	103	June 21, 1904
Oxford avenue	Fairview avenue	Belmont line	312	40	June 22, 1904
Tuttle street	Huron avenue	Donnell street	596	30	June 22, 1904

BRIDGES.

The Walden Street Bridge over the Fitchburg Railroad will need considerable repairs. The sidewalk brackets have become badly corroded and should be renewed. The protective casings placed in 1902 have proved an excellent protection to the metal work and are now in good condition, except one strip which has been knocked off. This should be replaced at once as the bottom flange of the main girder is suffering from the action of the blast from the engines passing on the track below. The fence railings should be repaired and painted. Some portions of the abutments should be repaired where the frost has disintegrated the masonry.

The Huron Avenue Bridge over the Watertown Branch Railroad will need entire replanking, and all the iron work above the floor and much below should be cleaned and painted. The lead covering on the under members of the structure will need some repairs.

The Huron Avenue Bridge over the water works pipeway should be entirely replanked and the fences should be painted.

The three bridges over Broad Canal, at First Street, at Third Street and at Sixth Street, will each need minor repairs, and all should be painted.

BROOKLINE STREET BRIDGE.

The question of a new bridge over the Charles River at this point has long been agitated, and much difference of opinion has existed as to its location and character. The request of the Boston Elevated Railway Company for a permit to make a grade crossing over the Boston & Albany Railroad tracks at the southerly end of the bridge seemed to require that some definite action be taken at once, and so it was decided to build a bridge of a somewhat temporary character of wood on pile trestles, under an agreement, the general features of which are shown by the following portions of the Acts of the Legislature for 1904, Chapter 391, and approved June 1, 1904.

Section 1. "The Cambridge Bridge Commission, appointed under the provisions of chapter four hundred and sixty-seven of the acts of the year eighteen hundred and ninety-eight, shall abolish the grade crossing of Essex street and the Boston & Albany railroad in ward twenty-five of the City of Boston by building a new bridge, to be known as the Brookline Street Bridge, over the tracks of the railroad and Charles river, substantially upon the site of Essex street in Boston, Brookline street in the city of Cambridge, and of the present bridge, and may, during the construction of the new bridge and approaches, maintain the present bridge, or make

and maintain a temporary bridge, for the use of persons and vehicles. No compensation shall be required for the occupation of any lands or flats of the Commonwealth, or for any displacement of tide water, in carrying out the above provisions. The new bridge may be without a draw and shall be of a height above the river and of a width of central span not less than shall be approved by the board of harbor and land commissioners, and of a height above the railroad tracks not less than that approved by the board of railroad commissioners.

Section 2. The new bridge and its approaches, from Commonwealth avenue in Boston to Granite street in Cambridge, shall be laid out as a highway of such width not exceeding seventy feet and of such grade as shall be designated by the commission in its certificate filed in the registry of deeds in Boston and in the registry of deeds in Cambridge, shall be suitable for ordinary travel and for street railway use, and the Boston Elevated Railway Company shall have a location and may construct, maintain and use such surface railway tracks therein, subject to the provisions of law now or hereafter in force relating to said company.

Section 3. The commission shall define the limits of the approaches on the Cambridge side, and the city of Cambridge may lay out, and if so laid out, its city engineer acting for the city shall construct, said approaches, and the city shall pay the expenses of such construction and the damages to property caused by the laying out, widening and construction of said approaches.

Section 4. The filing of the certificate aforesaid shall constitute the laying out of the bridge and approaches on the Boston side as a highway, and the city engineer of Boston acting for the city shall construct the same, and the city shall pay all the expenses of carrying out the provisions of this act except the expenses to be paid by the city of Cambridge as aforesaid; and there shall be paid to the city of Boston by the Boston & Albany Railroad Company, fifty thousand dollars, by the Commonwealth twenty thousand dollars, and by the Boston Elevated Railway Company seven thousand five hundred dollars."

Plans are now being prepared by the City Engineer of Boston and it is expected that work will be begun early in the spring on construction of the bridge.

The Boston & Albany Railroad Company is also proposing to rebuild their bridge just below, thus providing for a double track, and at the same time raising the grade and lengthening several spans so as to give ample room for boats and launches to pass through both bridges without interference.

BOYLSTON STREET BRIDGE.

Some consideration has been given to the reconstruction of this bridge. The old bridge is certainly inadequate to the present demands, even if it were in good and safe condition. The location is at such a

point in the river and parkway system as to demand not only a safe and commodious bridge, but one having artistic merit as well. Preliminary steps have been taken toward the construction of this bridge, and the following Act of the Legislature, Chapter 412, approved June 3, 1904, provides in a general way for it.

SECTION 1. "The cities of Boston and Cambridge, by the Cambridge Bridge Commission, appointed under the provisions of chapter four hundred and sixty-seven of the acts of the year eighteen hundred and ninety-eight, shall re-build the bridge across Charles river in the line of North Harvard street in Boston and of Boylston street in Cambridge, to be known as Soldiers' Field Bridge, and may construct a temporary highway bridge to be used by vehicles and pedestrians during such construction, or may use the present bridge structure for that purpose.

SECTION 2. Said bridge shall be suitable for all the purposes of ordinary travel between said cities, and for the use of surface cars of street railway companies; shall be built with or without a draw at a height above mean high water mark not exceeding twenty-six feet; shall be constructed and maintained subject to the provisions of chapter ninety-six of the Revised Laws and of all other general laws now or hereinafter in force relating to bridges over tide waters, so far as the same are applicable, except that no compensation for displacement of tide water or for occupying any lands or flats of the Commonwealth shall be required from said cities or either of them.

SECTION 3. The approach to said bridge on the Boston side shall be laid out by said commission as a highway, not less than sixty feet in all its extent, and the city engineer of the city of Boston, acting for that city, shall construct said approach at or before the completion of said new bridge.

SECTION 4. The approach to said bridge on the Cambridge side shall be laid out by the city of Cambridge as a highway, not less than sixty feet in width in its whole extent, and the city engineer of the city of Cambridge, acting for that city, shall construct the approach at or before the completion of the new bridge.

SECTION 5. Said commission and the city of Cambridge shall, in laying out said approaches, proceed under the same laws, so far as they may be applicable, which govern the laying out of highways in said cities, respectively, under the provisions of law authorizing the assessment of betterments, with like remedies to all parties interested.

SECTION 6. The city of Boston and the city of Cambridge shall respectively pay all damages to property within their respective territories, caused by the laying out and construction of the approaches to said bridge, and all other expenses shall be borne and paid one half by the city of Boston and one half by the city of Cambridge, but the total expenses shall not exceed one hundred and twenty thousand dollars."

SEWERS.

A larger amount of work has been done the past season on sewer construction than for many years. The work has been done by day work, employing Cambridge labor, all directly in charge of the Superintendent of Sewers, under the general direction of the City Engineer. Active work began in April, 1904, and has continued up to the present time. The largest number of men on the pay-roll was one hundred eighty-two. The total amount expended during the year for sewer purposes was $122,357.32, of which $17,522.11 was for maintenance and $104,828.21 for new construction.

Since the beginning of the construction of the improved sewerage system, two and sometimes three sewer pipes or conduits have been built in many streets.

Some confusion has arisen from this fact as to what is meant by the "total length of sewers" now contained in the City. Whether the total length of sewer pipes or conduits in the streets each considered separately as a sewer was meant, or whether the several pipes or conduits in a given street should be considered as only parts of the complete sewer furnishing sewerage for that street. In order to make the matter clear an examination of the records has been made and it is found that there are now about 113.687 miles of streets sewered with various numbers of sewer pipes and conduits and that there are in these streets about 126.237 miles of sewer pipes and conduits of sizes from 8-inch diameter to 8 feet by 8 feet 4-inches in diameter.

The total cost of sewer construction to date is reported as $1,823,842.36.

BINNEY STREET SEWER.

Portions of the main trunk sewer in Binney Street between Ninth Street and Commercial Avenue have long been known to require somewhat extensive repairs, owing to deformation of the arch caused by a movement of the sides where the filling against them had yielded

This sewer is eight feet four inches high and eight feet wide. The bottom or floor is of heavy timber and the arch is of brick twelve inches thick.

Measurements were made from time to time to determine the amount of movement which took place.

In February some alarm was felt lest the arch should fall in, and it was decided to rebuild portions of the sewer at once.

SEWERS CONSTRUCTED BETWEEN DECEMBER 1, 1903, AND DECEMBER 1, 1904.

Street.	From	To	Material.	Size in inches.			Number of			Ave'ge depth of cut.	Length in feet.			Cost.		Time when work was	
				Combined.	Storm.	Sanitary.	Man-holes	Lamp-holes.	Inlets.		Com-bined.	Sanitary.	Storm.	Per foot.	Total.	Begun.	Finished.
Armory st	Near Broadway	Northerly	Akron pipe		10		1		6	6			89.90	$1 45	$130 26	Dec. 12, 1903	Dec. 19, 1903
Seventh st	Spring st	Northerly	" "	10			1	1	12	8	181.38			1 87	331 57	Jan. 13, 1904	Feb. 13, 1904
Acacia st. extension	Hilliard st	Westerly	" "		10	8	1		20	9		156.63	156.63	1 87	293 60	Apr. 7, 1904	Apr. 16, 1904
Inman sq	Hampshire st	Springfield st	" "			8	1		1	12		90.47			332 05	May 4, 1904	May 28, 1904
Amherst st	Wadsworth st	Carleton st	" "		27 x25½												
			Brick and concrete		24 x24	8	2		74	10		549.44	596.15				
Hayward st	Main st	Amherst st	" " "		16 x20												
			Akron pipe		12 &15	8	2		72	11.5		592.40	592.40				
Wadsworth st	Main st	Charles River	" "		33½x24												
			Brick and concrete		36 x36	10 and 8	2		66	12		414.70	755.70		28,352 63	Mar. 15, 1904	Sept. 30, 1904
Carleton st	Main st	Amherst st	" " "		18 x22												
			Akron pipe		16 x20	8	1		95	10		631.00	691.00				
					10												
Green st	Near Vernon st	Easterly	" "			8	2		23	9		319.08					
Green st	Bay st	Easterly	" "			8	2	1	24	9		343.87			1,746 54	May 12, 1904	June 11, 1904
Bay st	Franklin st	Green st	" "			10	1		10	10.5		242.40		4 35	1,053 34	June 11, 1904	June 25, 1904
Franklin st	Bay st	Westerly	" "			8	3		29	9		400.18					
Franklin st	Bay st	Easterly	" "			8	2	1	24	9.5		302.45			3,084 71	Mar. 24, 1904	July 30, 1904
Jay st	Kinnaird st	Western ave	" "			8	1	1	43	9.5		554.25		3 21	1,777 20	Oct. 25, 1904	Nov. 19, 1904
Howard st	Kinnaird st	Western ave	" "			10 and 8	1	2	53	9.5		789.50		5 18	4,087 10	July 24, 1904	Sept. 10, 1904
Hayes st	Howard st	Westerly	" "			8	2	1	32	10		446.50		3 10	1,385 17	Aug. 18, 1904	Sept. 24, 1904
Grigg st	Howard st	Magee st	" "			8	4		9	9		190.20		5 75	1,095 12	Sept. 22, 1904	Oct. 15, 1904
Magee st	Grigg st	Near Putnam ave	" "			8	4	2	21	9.5		439.65		3 95	1,295 72	Sept. 28, 1904	Oct. 29, 1904
*Washington st	Portland st	Columbia st	" "		57½x45½	18x20											
			Brick and concrete		30 x38⅞	10-12-8	8		232	13.5		1680.00	1680.00	11 70	19,653 18	July 25, 1904	Nov. 26, 1904
			" " "														
Harrison st	Washington st	Southerly	Akron pipe		16 x17	15			3	14.5		41.60	41.60	5 32	220 80	Nov. 1, 1904	Nov. 12, 1904
Columbia st	Webster ave	Cambridge st	" "			8			2	12		56.25					
Webster ave	Columbia st	Somerville line	" "		12 &10	8	3		65	10.5		423.10	423.10				
*Cambridge st	Warren st	Westerly	" "			15 and 12	7		68	19		1150.00			16,233 39	June 22, 1904	Dec. 1, 1904
Porter st	Warren st	Harding st	" "			8	3		48	10.5		615.90					
Jefferson st	Warren st	Harding st	" "			8	2		15	9.5		400.00					
Warren st	Porter st	Cambridge st	" "			8	2	1	35	10		422.00					
Fayerweather st	Huron ave	Southerly	" "	12 and 10			2	1	46	10		627.15		2 18	1,366 90	July 20, 1904	Sept. 3, 1904
Homer ave	Mt. Auburn st	Northerly	" "			8	2	1	46	7.5		651.30		1 14	743 73	July 19, 1904	Aug. 15, 1904
Garden st	Linnaean st	Madison st	Brick and concrete	18 x 22			2		40	9	567.50						
Garden terrace	Garden st	Southerly	Akron pipe		10			1	16	9	249.20				3,575 69	Sept. 22, 1904	Oct 31, 1904
Madison st	Garden st	Southerly	" "	12 and 10			1	1	30	9.5	417.88						
Exeter park	Mass. ave	Easterly	" "		12	8	1		22	8.5		304.60	304.60	1 50	459 32	Sept. 14, 1904	Sept. 24, 1904
*Sixth st	Binney st	Broad Canal	" "		15-12-10	10-8	3		76	10.5		580.00	495.00				
Potter st	Sixth st	Ninth st	" "		12 &10	8	2		58	9		422.00	422.00		2,500 96	Nov. 5, 1904	Dec. 1, 1904
Ninth st	Potter st	Northerly	" "			12			3	11		43.00					
Warland st	Pleasant st	River st	" "		10	8	2		16	10.5		169.35	169.35	3 35	566 88	July 5, 1904	July 22, 1904
Gurney st	Huron ave	Easterly	" "	12 and 10			2	1	28	10	454.50			2 85	1,297 38	Aug. 3, 1904	Nov. 9, 1904

* Sewers uncompleted.

A section of the sewer between Ninth Street and Sixth Street, one hundred and twenty-four feet long was rebuilt by removing the arch, sides, and wooden skew-backs, and reconstructing it with steel rods, concrete and brick.

A section between Fourth and Third Streets sixty-three and five-tenths feet long, and a section east of Third Street three hundred and eighty-two and eighty one-hundredths feet long was rebuilt of brick and concrete but using the entire old wooden foundations. This was less expensive than the first method and made an excellent construction.

The total cost of the work has been $11,224.65. Owing to the lack of the requisite means a section between Second Street and First Street was not rebuilt. This should be done the coming season.

FRANKLIN STREET DISTRICT SEWER.

Work upon the construction of the Improved System of sewers in this district was continued through nearly the whole season, and the work in this district, so far as is now contemplated, is completed and the district has now practically a complete system of storm and sanitary sewers.

The total length of sanitary sewers now built is eight thousand seven hundred and eighty-two feet, and the total cost has been $44,251.60.

In some cases the sewers were built upon a pile foundation and in some cases the mud was excavated from two to four feet to good foundation and the trench so dug refilled with gravel.

In one case the sewer was twenty-seven feet deep, mostly in clay. These conditions made the construction expensive.

WADSWORTH AND CARLETON STREET DISTRICT.

The construction of this system was begun in 1903 and was continued the present season until its completion. In most of the streets in the district both storm and sanitary sewers were constructed.

Five thousand two hundred and ninety-five and twenty-five hundredths feet of streets have been sewered, mostly with two sewers, requiring seven thousand eight hundred and ten and fifty-sixth hundredths feet of sewer construction. The total cost has been $50,669.88.

CAMBRIDGE STREET DISTRICT.

Work on the improved sewerage of this district was begun in August of this year and has continued until the present time. The main sewer in Cambridge Street has been built from Portland Street to near Windsor

Street, and the sewers in Warren Street, Marion Street and Jefferson Street built. A total length of about three thousand and seventy-six feet, at a total cost to date of about $16,233.39.

The plate on the adjoining page shows the location of the various structures in Cambridge Street near Portland Street, and illustrates the increasing occupation of the City streets by these structures, and the difficulty sometimes encountered getting proper locations for City conduits.

WASHINGTON STREET DISTRICT.

A numerously signed petition was presented early in the season from owners in the district bounded by Portland Street, Norfolk Street, School Street and Harvard Street for better drainage facilities.

The existing sewers were inadequate in size and very shallow in depth, and in addition, the stone covering was in some cases beginning to fail and break down.

An order was passed July 1, 1904, for construction of sewers in the district, and on July 25, 1904, work was begun and has continued until the present time. About sixteen hundred and seventy-seven feet of sewers have been built at an expenditure of $19,653.18 which has been charged to "Construction,—Improved Sewerage."

GENERAL CONSTRUCTION.

A number of sewers have been built on petitions by abuttors as shown on the following schedule. In the cases of Exeter Park, Sixth Street and Potter Street, two conduits were constructed, one for surface water and one for sanitary sewage.

Twenty-two catch basins have been built at the cost of $1,152.29.

MAINTENANCE.

The usual care and attention has been given the sewers of the City and their appurtenances.

Forty-seven catch basins have been repaired at a cost of $799.10.

Four thousand eight hundred eighty-six loads of material have been removed from 2,055 catch basins during the year at a cost of $4,944.49.

The sewer in Franklin Street between Sidney Street and Brookline Street has in the past given a great deal of trouble, repeated stoppages having occurred.

The conditions became so bad that it was determined to rebuild the sewer at once and in July the sewer was entirely relaid a length of 521.28 feet at a cost of $709.51.

Eighteen persons have been licensed as drain layers during the year. Permits have been granted for sewer repairs or connections as follows: —

For repairs	83	permits
" connection to combined sewers . .	128	"
" " " sanitary sewers . . .	39	"
" " " storm sewers . . .	14	"
A total of	264	"

The following table may be of interest as showing some of the maximum rates of rainfall occurring the past year.

Date.	Total Rainfall.			Maximum Rainfall.			
	Period.	Length of Time.	Amount in Inches.	Period.	Length of Time.	Amount in Inches.	Rate Per Hour in Inches.
		hr. min.			hr. min.		
Dec. 9, 1903.....	5.20 p.m. to 10.20 p.m.	5 ..	.88	9.40 p.m. to 10.00 p.m.	.. 20	.20	.60
Dec. 13, 1903.....	8.50 a.m. " 1.30 p.m.	4 40	.56	1.20 p.m. " 1.23 p.m.	.. 3	.08	1.60
Apr. 9 and 10, 1904	7.40 p.m. " 2.30 a.m. 27th 28th	6 50	1.03	11.05 p.m. " 11.15 p.m. 28th 28th	.. 10	.18	1.08
Apr. 27 and 28, 1904	9.00 a.m. " 6.40 p.m. 15th 16th	33 40	4.75	5.20 p.m. " 5 40 p.m.	.. 20	.25	.75
May 15 and 16, 1904	11 40 p.m. " 1.20 a.m. 18th 19th	1 40	.52	12.52 a.m. " 1.12 a.m. 19th	.. 20	.30	.90
May 18 and 19, 1904	10.00 a.m. " 7.30 p.m.	33 30	1.37	7.00 p.m. " 7.15 p.m.	.. 15	.70	2.80
May 25, 1904.....	7.20 p.m. " 11.15 p.m.	3 55	.22	7.20 p.m. " 7.23 p.m.	.. 3	.10	2.00
May 27, 1904.....	1.08 p.m. " 1.13 p.m.	.. 5	.40	1.08 p.m. " 1.13 p.m.	.. 5	.40	4.80
June 7, 1904.....	4.05 a.m. " 6 20 a.m.	2 15	.60	4.05 a.m. " 4.13 a.m.	.. 8	.40	3.00
June 21, 1904.....	1 28 p.m. " 2.00 p.m.	.. 32	.29	1.28 p.m. " 1.36 p.m.	.. 8	.25	1.88
June 22, 1904.....	5.40 a.m. " 6 00 a.m.	.. 20	.23	5.40 a.m. " 5.45 a.m.	.. 5	.20	2.40
June 25, 1904.....	6.40 p.m. " 8.20 p.m. 29th 30th	1 40	.37	6.40 p.m. " 6.55 p.m 29th 29th	.. 15	.30	1.20
June 29 and 30, 1904	8.00 a m. " 10.00 a.m.	26 ..	.61	11.05 a.m. " 11.15 a.m.	.. 10	.18	1.08
June 30, 1904.....	5 35 p.m. " 5.55 p.m.	.. 20	.24	5.35 p.m. " 5 55 p.m.	.. 20	.24	.72
July 5, 1904.....	4.55 p.m. " 6.20 p.m.	1 25	.60	4.55 p.m. " 5.00 p.m	.. 5	.30	3.60
July 16, 1904.....	6.50 p.m. " 7.20 p.m.	.. 30	.28	6.50 p.m. " 6.55 p.m.	.. 5	.20	2.40
Aug. 2, 1904.....	5.20 a.m. " 8.00 a.m.	2 40	.74	5 20 a.m. " 5 23 a.m. 5.23 a.m. " 5.28 a.m.	.. 3 .. 5	.30 .20	6.00 2.40
Aug. 11, 1904.....	6.00 p m. " 6.10 p.m.	.. 10	.10	6.00 p.m. " 6.03 p.m.	.. 3	.05	1.00
Sept. 12, 1904.....	5.55 p.m. " 8.20 p.m. 13th 14th	2 35	.21	5.55 p.m. " 5.58 p.m.	.. 3	.12	2.40
Sept. 13 and 14, 1904	11.20 p.m. " 10 30 a.m.	11 10	4.33	5.05 a.m. " 5.15 a.m.	.. 10	.39	2.34
Sept. 29, 1904.....	3.35 p.m. " 7.40 p.m.	4 5	.84	7.25 p.m. " 7.30 p.m.	.. 5	.06	.72
Oct. 21, 1904.....	11.30 a.m. " 3.00 p.m.	3 30	.50	2.05 p.m. " 2 10 p.m	.. 5	.07	.84

The automatic sewer registers have been continued in service at various connections with the Metropolitan Sewer.

A statement showing the results obtained from 1899 to date follows: —

STATEMENT SHOWING RESULTS OBTAINED FROM RECORD OF AUTOMATIC REGISTERS AT VARIOUS CONNECTIONS WITH THE METROPOLITAN SEWER.

Year.	Regulators: Binney St. at Portland St.				Regulators: Mass. Ave. at Alewife Brook.				Regulators: Mt. Auburn St. at Lowell St.				Tide gates: Binney St. at Outlet.		Tide gates: Bath St. at Outlet.		Tide gates: Lowell St. Outlet.	
	Hours shut.	Per cent. of total time.	Hours of partial closure.	Per cent of total time.	Hours shut.	Per cent. of total time.	Hours of partial closure.	Per cent. of total time.	Hours shut.	Per cent. of total time.	Hours of partial closure.	Per cent. of total time.	Hours open.	Per cent. of total time.	Hours open.	Per cent. of total time.	Hours open.	Per cent. of total time.
	h. m.		h. m		h. m.		h. m.		h. m.		h. m.		h. m.		h. m.		h. m.	
To December 1, 1899	606 45	6.93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	248 00	2.83	569 00	6.50	.....	.....
1900	569 30	6.50	.....	.....	387 8	4.42	.....	.....	.....	.....	.....	.....	291 10	3.32	315 25	3.60	.....	.....
1901	418 40	5.03	.....	.....	587 30	6.74	.....	.....	.....	.....	.....	.....	217 20	2.48	209 00	2.39	.....	.....
1902	609 40	6.90	.....	.....	*573 00	6.50	.....	.....	.....	.....	.....	.....	§123 20	1.55	.....	.....	.....	.....
Dec. 1, 1901, to Jan. 14, 1902	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29 35	2.77	.....	.....
Jan. 29, 1902, to Dec. 1, 1902	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	164 35	2.24
Dec. 1, 1902, to Dec. 1, 1903	696 55	7.95	.....	.....	†272 20	3.11	.....	.....	.....	.....	867 45	9.91	220 40	2.52	.....	.....	138 5	1.57
Dec. 1, 1903, to Dec. 1, 1904	559 30	6.37	444 05	5.07	376 40	4.28	238 20	2.71	44 20	0.52	359 50	4.09	‡134 25	1.53	.....	.....	191 0	2.17

* The time here given is for a complete closing of the regulators. In addition to this the records show a partial closure for 1,216½ hours during the year.
§ From July 12, 1902, to August 14, 1902, no records were obtained from this register, as the gates were undergoing repairs.
† The time here given is for a complete closing of the regulator. In addition to this the records show a partial closure for 1,328 hours during the year.
‡ No record obtained from February 5, 1904, to March 29, 1904.

FINANCIAL.

Maintenance: Appropriation		$18,000 00
Expended: —		
Catch basin repairs and opening	$1,506 07	
Cleaning catch basins	4,944 49	
Cleaning and repairing gates	1,250 87	
Cleaning sumps	205 97	
Cleaning and flushing sewers	931 53	
Manhole repairs	81 48	
General expense	4,713 52	
Office expense	466 54	
Sewer repairs	1,586 67	
Stable account	1,832 97	
Total		17,520 11
Balance		$479 89
Construction General: Appropriation		$51,500 00
Expended: —		
Wadsworth and Carleton Street District	$25.475 20	
Amory Street	130 26	
Seventh Street	331 57	
Binney Street	11,224 65	
Acacia Street	293 60	
Fayerweather Street	1,366 90	
Homer Avenue	303 29	
Warland Street	566 88	
Exeter Park	459 32	
Garden Street, Garden Terrace, Madison Street	3,575 69	
Gurney Street	1,297 38	
Sixth Street, Potter Street	2,500 96	
Catch basins	1,152 29	
General expense	877 01	
Total		49,555 00
Balance		$1,945 00
Improved Sewerage: Appropriation		$47,027 11
Expended: —		
Franklin Street District	$15,524 92	
Washington Street District	19,873 98	
Completing Hampshire Street District	332 05	
		35,730 95
Balance		$11,296 16
Separate System: Appropriation		$25,000 00
Expended: —		
Cambridge Street District	$16,233 39	
Wadsworth and Carleton Street District	2,877 43	
Homer Avenue	440 44	
		19,551 26
Balance		$5,448 74

The following statement shows the amount of the appropriations (met by special loans outside the City debt limit) and the amounts expended each year on the Improved Sewerage account since the work first began.

	Appropriation.	Expended.
1899	$100,000 00	$42,989 24
1900	99,010 76	73,619 11
1901	125,391 65	76,546 14
1902	68,845 51	61,997 27
1903	47,848 24	47,821 13
1904	47,027 11	35,730 95
Total expended to date		$338,703 84

The Metropolitan sewer tax assessed on Cambridge for the year 1904 is as follows: —

Sinking Fund requirements	$13,016 98
Interest account	46,712 18
Maintenance and operation	27,162 42
	$86,891 58

CHARLES RIVER BASIN.

In accordance with the provisions of an Act of the Legislature passed June 24th 1903, a commission of three men called the "Charles River Basin Commission" was appointed by the Governor to execute the work contemplated by the Act. Much preliminary work has been done and the plans and specifications for the dam and appurtenances prepared and bids are now being prepared for carrying on this work. It is expected that during the coming year substantial progress will be made in construction.

WATER WORKS.

The statement showing the condition of the water in the various reservoirs is here repeated as a ready means of comparison.

Year.	*Annual Rainfall.	FRESH POND. Elevation of High Water, 16.85.				STONY BROOK BASIN. Elevation of Crest of Dam, 81.00.						HOBBS BROOK BASIN. Elevation of Crest of Dam, 181.00.			
		Highest Water.		Lowest Water.		Highest Water.		Lowest Water.		No of days water wasted over dam	Number of Gallons Wasted	Highest Water.		Lowest Water.	
		Date.	El.	Date.	El.	Date.	El.	Date.	El.			Date.	El.	Date.	El.
1870	41.53	April 21	16.85	Nov. 22	12.44										
1871	40.09	May 8	15.32	Oct 5	12.68										
1872	51.98	Oct. 1	16.17	Dec.19,'71	13.00										
1873	46.10	April 2	16.55	Nov. 7	12.52										
1874	41.87	June 8	15.24	Nov. 27	11.80										
1875	51.46	June 24	12.60	Feb. 23	8.97										
1876	43.60	May 31	13.27	Jan. 6	10.60	Conduit from Fresh to Little Pond completed.									
1877	48.93	April 7	16.31	Oct. 4	12.05	Filter gallery built at Little Pond—Water drawn to Fresh Pond from Oct. 11 to end of year.									
1878	50.99	May 1	16 43	Nov. 17	13.54	Water admitted to Fresh Pond through conduit from July 26 to the end of the year.									
1879	39.64	May 1	15.80	Nov. 28	12.11										
1880	33.31	April 5	13.08	Nov. 30	8.34	Water admitted to Fresh Pond through conduit from Sept. 28 to the end of the year.									
1881	42.85	April 18	16.04	Feb. 9	7.73										
1882	39.62	Mar 28	15.87	Nov. 30	10.69										
1883	29.75	April 14	11.93	Nov. 26	5.91	Water admitted to Fresh Pond through conduit from Jan. 24 to April 13.									
1884	46.07	April 27	14.08	Jan. 1	5.54	Water admitted to Fresh Pond through conduit from Jan. 16 to April 10.									
1885	48.98	May 4	10.61	Oct. 29	5.95	Water admitted to Fresh Pond through conduit from Feb. 10 to Mar. 2.									
1886	46.12	May 12	13.74	Dec. 1	6.62	Water admitted to Fresh Pond through conduit from Jan. 13 to Mar. 31. Conduit abandoned 1887.									
1887	43.99	May 1	8.00	Nov. 5	3.32	Aug. 15	75.00	Jan. 22	†51.70						
1888	60.01	May 13	16.25	Jan. 1	9.66	Mar. 22	83.40	Dec.11,'87	72.43	244	7,315,800,000				
1889	60.08	Jan. 8	16.62	Oct. 12	13.72	Dec.19,'88	82.91	July 2	80.75	363	10,202,600,000				
1890	49.32	April 10	16.74	July 27	13.69	Mar. 24	82.40	Sept. 6	71.66	302	8,929,800,000				
1891	49.11	Mar. 24	16.78	Aug. 26	12.19	Jan. 23	83.31	Nov. 10	72.20	209	8,214,400,000				
1892	41.17	May 23	16.64	Aug. 3	12.29	Mar. 11	82.80	Nov. 10	69.56	202	3,804,100,000				
1893	39.52	May 5	17.07	Nov. 3	11.67	Mar. 15	82.83	Sept. 9	64.50	133	4,735,800,000				
1894	35.66	June 1	17.15	Sept. 18	10.65	Mar. 7	82.24	Oct. 25	68.40	164	2,852,600,000				
1895	49.72	June 2	17.30	Sept. 15	11.44	April 15	82.56	Dec.11,'94	74.80	224	5,304,200,000				
1896	41.77	April 27	16.49	Nov. 24	10.95	Feb. 7	83.30	Sept. 5	66.13	225	5,852,700,000				
1897	43.35	June 11	17.34	Dec. 1,'96	11.41	Mar. 25	82.00	Nov. 1	71.02	256	4,016,600,000				
1898	53.09	May 2	17.35	Oct. 19	15.23	Feb. 22	82.27	Aug. 5	75.42	260	5,704,600,000	Oct. 27	181.53	Dec.16,'97	‡159.00
1899	44.96	Jan. 27	17.15	Sept. 19	13.17	Mar. 6	82.25	July 8	75.30	175	6,969,500,000	Mar. 20	181.27	Nov. 30	175.93
1900	51.29	April 23	17.46	Sept. 16	13.96	Mar. 2	82.81	July 9	77.04	145	4,447,100,000	Mar. 17	181.85	Jan. 10	175.10
1901	46.87	May 25	17.62	Nov. 17	14.45	April 8	82.54	Feb. 26	78 10	159	6,073,150,000	April 8	181.85	Dec. 1,'00	177.30
1902	44.58	April 14	17.24	Nov. 30	13 45	Mar. 1	83.92	July 8	79.00	182	6,567,175,000	Mar. 2	182.15	Oct. 27,'02	178.28
1903	45.95	April 20	14.64	Nov. 29	11.50	June 21	82.62	June 1	79.82	222	6,437,500,000	June 22	181.75	Dec. 1, '02	178.48
1904	41.18	June 4	17.09	Mar. 1	9.42	April 29	83.15	July 16	79.73	175	5,663,800,000	April 29	182.00	Nov.13,'04	178.50

*Record of annual rainfall taken at Harvard Observatory during the years 1870 to 1879 inclusive, at Fresh Pond from 1880 to 1889, and at Stony Brook from 1890 to 1904.

†The water gates at Stony Brook Dam were first closed June 9, 1887, with water at elevation 58.80. Water was formally introduced into Fresh Pond Nov. 15, 1887, and first flowed over dam Jan. 3, 1888.

‡The water gates at Winter St. Dam were first closed Dec. 16, 1897. The basin filled in 247 days and water first flowed over dam Aug. 20, 1898.

Water wasted over the Stony Brook Dam as follows:—

December, 1903	18,900,000 gallons
January, 1904	37,500,000 "
February, 1904	179,200,000 "
March, 1904	1,771,700,000 "
April, 1904	1,886,300,000 "
May, 1904	1,482,600,000 "
June, 1904	226,200,000 "
July, 1904	5,200,000 "
August, 1904	
September, 1904	54,900,000 "
October, 1904	
November, 1904	1,300,000 "

Total amount passing the dam during the year, 5,663,800,000 gallons.

TABLE: SHOWING COMPARISON BY MONTHS OF THE TOTAL PRECIPITATION AT STONY BROOK BASIN, HOBBS BROOK BASIN, HARVARD OBSERVATORY AND CAMBRIDGE CITY HALL; ALSO THE NUMBER OF DAYS IN WHICH RAIN FELL AT CITY HALL DECEMBER 1, 1903, TO DECEMBER 1, 1904.

Point of Observation.		1903.	1904.										
		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Total.
Stony Brook Basin.	Total Precipitation.	2.59	4.46	3.08	2.60	9.48	2.51	2.64	2.01	2.87	5.70	1.67	1.57	41.18
Hobbs Brook Basin.	Total Precipitation.	2.45	3.01	2.10	2.50	8.55	4.05	3.18	2.35	3.60	5.87	1.73	1.51	40.9
Harvard Observatory.	Total Precipitation.	3.25	5.15	2.76	2.85	9.28	3.77	2.64	1.68	2.37	5.84	2.00	1.80	43.3
City Hall.	Total Precipitation.	3.14	5.61	3.28	2.43	10.07	3.96	2.67	1.88	2.49	6.46	1.87	2.05	45.9
	Number of days rain fall.	9	12	7	7	14	10	9	8	9	11	8	3	107

In anticipation of the construction of the new pipe line from Stony Brook to Fresh Pond, a complete survey, borings, plan and profile have been made of the portion of the line from near Watertown Square to Fresh Pond, a distance of a little over two miles. The cost of the work was $502.94, paid by the Water Works Department.

TUNNELS UNDER BROAD CANAL.

One of the provisions of the act authorizing the construction of the Charles River Basin is that certain dredging shall be made in Broad Canal so as to give ample depth of water. When this is done, the water and

TABLE SHOWING RAINFALL AT STONY BROOK BASIN AT WESTON, AT HOBBS BROOK BASIN IN WALTHAM, AND THE CITY HALL AND HARVARD OBSERVATORY, CAMBRIDGE, DECEMBER 1, 1903, TO DECEMBER 1, 1904.

Day of Month.	DECEMBER, 1903.				JANUARY, 1904.				FEBRUARY.				MARCH.				APRIL.				MAY.				JUNE.				JULY.				AUGUST.				SEPTEMBER.				OCTOBER.				NOVEMBER				Day of Month.
	Stony Brook.	Hobbs Brook.	City Hall.	Harvard Observ.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	
1												0.01	0.49	0.40	0.36	0.54	0.45	1.20	1.35	0.29				0.35			0.40		0.28		0 24	0.19			0.04											0.07					1
2			0.20	0.05			1.20	0.03				T	0.28			0.19	1.01			0.96					0.24	0.30	0.08	0.40	0.04				0.82	1.10	0.70	0.60	0.02												2
3	0.18	0.25	0.20	0.22	1.20	0.41	0.12	0.90				0.03		0.45	0.43	0.24									0.12	0.20	0.13	0.11					0.06	0.10		0.03												3
4				0.03				T					0.47			0.16																							T						T		4
5											0.42																				0.60																5
6									0.37	0.35		0.37																T	0.44	0.75		0.58	0.02		0.16	0.08						0.37	0.25	0.05	0.37					6
7										0.02		0.01			0.25			0.22	0.15	0.13					0.75	0.85	0.56	0.70															0.32					7
8												0.03	0.70	0.80	0.65	0.90	0.18			0.01					0.05			0.03						0.75	0.06	0.08												8
9			0.88		0.51	0.47	0.90	0.77									0.60	0.46	0.50	0.51			1.09	0.49									0.17				0.19	0.30	0.20	0.21			0.05	0.01					9
10	0.90	0.80		0.91			1.20	0.04									0.96	0.94	1.03	0.93	0.70	1.25		0.61										0.45	0.30	T	0.06	0.10	0.02	0.04				0.02					10
11																	0.12	0.15	0.05	0.05	0.13	0.15	0.15	0.12									0.43		0.09	0.39			0.05			0.05	0.05	T					11
12								T								T		0.30	0.27	0.30				T											0.12	0.02	0.36	0.20	0.61	0.25	0.08	0.10	0.80	0.03					12
13		0.35	0.56	0.31			1.12	0.03				T				T	0.32			T											0.25	0.10	0.09			0.07		0.16	0.05		0.41	0.61	0.80	0.06	0.85	1.46		1.70	0.07	13
14	0.56			0.29	0.59	0.60		1.12			0.73																		0.18				0.10			0.03			0.05		0.02			T		1.45	0.29	1.63	14
15										0.50	0.14	0.73			0.16	0.07				T			0.15										0.07			0.02	3.64	3.90	4.25	3.90									15
16							0.06		0.70			0.14	0.10	0.15		0.09		0.40	0.41	0.42	0.25	0.45	0.33	0.30				T		0.35	0.28			0.20			0.18												16
17				T	0.10	0.06		0.08									0.42												0.35			0.24	0.10			0.01													17
18													0.23	0.35		0.05							0.25	0.01																								18
19									0.20	0.13	0.18	T	0.17		0.35	0.33			0.27		0.32	0.45	1.12	0.72																										19
20			0.62	0.02		0.06	0.05	0.07				0.15	0.06			0.04	0.29	0.25	0.04	0.32	0.28	0.35	0.04	0.52											0.95	0.23				T									20
21	0.63	0.65		0.62			0.35	T										0 05		0.02	0.08			T			0.29					1.10	1.00		0.88						0.40	0.39	T	0.03			0.02	21
22		0.05	0.05	0.05			0.40	0.76		0.60	1.38	0.62			0.23	0.03									0.62	0.30	0.23	0.51													0.43			0.53					22
23					1.20	0.83	0.17	0.35	1.15			0.23	0.10	0.35		0.21									0.02			0.01	0.30	0.35	0.40	0.35																23
24					0.10			0.05			0.30	0.21									0.02									0.10	0.11	0.06							0.10									24
25									0.26	0.30		0.11						0.08	0.08	0.07			0.22			0.75	0.37		0.23	0.15		0.06					0.25	0.30	0.10	0.24				0.01					25
26		0.25	0.25	0.35			0.82														0.03	0.10		0.16	0.28			0.34										0.11				0.15						26
27	0.16		0.07	0.26	0.60	0.43		0.76				T					0.22		2.50	0.22	0.11	0.30	0.38	0.11	0.16				0.08	0.25	0.10	0.04					0.13	0.20		0.14	0.16	0.13		0.12					27
28				0.02						0.20	0.13					T	2.27	2.40	2.25	2.86	0.37	0.60		0.16																					T		28
29			0.31	T			0.12	0.04	0.40			0.12				T	2.00	1.85	0.82	2.08					0.40	0.60	0.55	0.24		0.15	0.05	0.07						0.70	0.84							T		29
30	0.16	0.10		0.12	0.16	0.15		0.15									0.64	0.25	0.35	0.11			0.23			0.18	0.06	0.30	0.11								0.71	0.12	0.13	0.65					0.08	0.06	0.06	0.07	30
31																					0.22	0.40		0.22																								31
Total	2.59	2.45	3.14	3.25	4.46	3.01	5.61	5.15	3.08	2.10	3.28	2.76	2.60	2.50	2.43	2.85	9.48	8.55	10.07	9.28	2.51	4.05	3.96	3.77	2.64	3.18	2.67	2.64	2.01	2.35	1.88	1.68	2.87	3.60	2.49	2.37	5.70	5.87	6.46	5.84	1.67	1.73	1.87	2.00	1.57	1.51	2.05	1.89	

gas pipes and electric cables now crossing at First Street, Third Street and Sixth Street will have to be lowered by the State. It seemed that this would be a good time to place these pipes in subways or tunnels where they would be safe and at the same time accessible.

Sketches of these proposed tunnels have been prepared and conferences had with the various corporations likely to use them. It is hoped that an agreement can be reached so that these tunnels can be constructed for the joint use of all.

PARK DEPARTMENT.

The usual amount of work has been done in laying out work for the Superintendent of Parks. A new landing was constructed and placed in the river just west of Massachusetts Avenue. The cost of this was $587.24. The river road from the end of Pleasant Street to River Street, a distance of about 900 feet, has been filled and partly graded.

The roadway between Western Avenue and Flagg Street has also been filled and partly graded and is now opened for travel a distance of about 900 feet.

Grading plans of the Fletcher School, on Elm Street, were prepared, and the grading of this and the Kelley School yards completed.

The following is the organization of the Engineering Department: —

City Engineer,

James W. Pierce, to May 13, 1904. Lewis M. Hastings, to date.

Principal Assistant,

George Davis.

Assistants,

Henry T. Burrage, office assistant and draughtsman.
G. Frank Hooker, in charge of Street work.
Frank B. Williams, in charge of Sewer work.
Frederic E. Everett, in charge of Park work.

Transitmen,

Gideon H. Cloyes, Jr. Ray L. Coolidge.

Rodmen,

Fred H. Burke, Edgar W. Davis, Lawrence Glynn.

Clerk and Stenographer,
MARY E. ROWEN.

Superintendent of Sewers,
THEODORE L. PIKE.

Five temporary assistants in addition have been employed temporarily in the department during the year.

Respectfully submitted,

L. M. HASTINGS,
City Engineer.

LIST OF STREETS AND WAYS IN THE CITY OF CAMBRIDGE, JAN. 1, 1905.

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Aberdeen Av'nue		Mt. Auburn	Huron av	100	1280	1895	
Acacia		Hawthorn	Ash	40	312	1880	
Acorn		Putnam av	Chestnut	40	300	1875	
Agassiz		Linnaean	Lancaster	40	374	1886	
	Akron	Banks	Parkway	40			233
Albany		Main	Erie	50	3430	1884, 1889, 1899	
	Albro	Blackstone	Parkway	40			330
Allen		Mass av	Orchard	30	304	1896	
Allston		Waverly	Magazine	40	1720	1871, 1877	
	Allston Court	Allston	Southerly	12			87
Alpine		Concord av	Field	50	337	1896	
	Ames	Main	Esplanade	80			538
Amherst		Wadsworth	Endicott	60	3685	1900, 1902	
	Amherst	Endicott	Vassar	60			2670
Amory		Broadway	Hampshire	40	1333	1880	
	Amory Place	Amory	Westerly	20			120
Andrew		Fairmont	Somerset	30	431	1899	
Antrim		Broadway	Inman sq	40	1342	1873	
Appian Way		Brattle	Garden	30	478	1800	
Appleton		Brattle	Vassal lane	45	1437	1866	
Appleton		Vassal lane	Concord av	40	630	1893	
	Appleton Ter'ce	Appleton	Easterly	10			120
Arlington		Mass av	Washington av	40	1107	1874	
	Arnold Circle	Mass. av	Northerly	20			150
Arrow		Mass. av	Bow	*30	430	†1635	
Arsenal Square		Chauncy	Concord av			1871	
Ash		Brattle	Mt. Auburn	31	604	1635	
Ash		Mt. Auburn	Southerly	30	308	1900	
	Ashburton Place	Essex	Easterly	20			148
	Ashton Place	Irving	Westerly	25			200
Athenæum		First	Second	50	399	1902	
Athens		Mt. Auburn	Southerly	40	297	1874	
	Athens Terrace	Athens	Easterly	20			120
	Auburn	Blanche	Sidney	40			261
Auburn		Sidney	Western av	40	1806	1836, 1874	
Austin		Main	Inman	49	2085	1830	
	Austin Place	Austin	Southerly	14			99
Avon		Shepard	Linnaean	35	812	1864	
Avon Hill		Linnaean	Upland rd	40	1280	1882, 1893	
	Avon Place	Avon Hill	Easterly	20			256
	Bacon Court	Gore	Northerly	12			200
	Bailey Place	Magazine	Easterly	14			135
Baldwin		Cambridge	Kirkland	40	1798	1853	
	Baldwin Place	Main	Northerly	15			140
	Baldwin St. Court	Baldwin	Easterly	13			165
	Ballord	Putnam av	Montague	30			173
	Bancroft	Western av	Gilmore	40			386
Banks		Mt. Auburn	Sands	40	1896	1874	
Bates		Avon Hill	Raymond	40	356	1887	
Bay		Mass. av	Kinnaird	40	580	1874	
Bay State Road		Concord av	Field	50	760	1896	
Beaver		Cowperthwaite	Flagg	40	374	1874	
	Bedford	Porter	Somerville line	33			30
Beech		Mass. av	Elm	*60	560	1848	
	Bell	Allston	Northerly	25			255
Bellevue Avenue		Raymond	E. of Avon Hill	30	455	1889	
Bellevue Avenue		Raymond	Westerly	30	182	1895	

* Varies in width—lines not parallel.

† Wherever the date 1635 occurs it indicates only that the street or square was recognized as public at that date.

LIST OF STREETS AND WAYS.—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Belvidere Place.	Green	Franklin	5			177
Belmont		Mt. Auburn cor.	Ericsson at Belmont line	75	1183	1900	
	Bennet	Murray	University rd.	40			347
	Bent	Commercial av.	Second	50			877
	Bent	Third	Ninth	50			1555
Berkeley		Phillips pl.	Craigie	40	984	1864	
	Berkeley Place.	Berkeley	Southerly	35			560
Berkshire		Bristol	Cambridge	40	1594	1896 1900	
	Berkshire Place.	Berkshire	Portland	15			300
Bigelow		Mass. av.	Harvard	40	920	1869	
Binney		Commercial av.	Third	50	1271	1897 1900	
	Binney	Third	Ninth	50			1406
Binney		Ninth	Portland	50	828	1876	
Birch		Concord av.	Bay State rd.	50	426	1896	
	Bird	Belmont	Cushing av.	40			316
	Bismarck	Newman	b'y'd Gladst'ne	30			440
Blackstone		River	Western av.	50	844	1859	
	Blair Place	Bolton	Southerly	35			182
Blake		Mass. av.	Orchard	40	408	1883	
Blanche		Mass. av.	Auburn	30	600	1902	
	Blanche	Auburn	Southerly	30			34
Boardman		Harvard	Broadway	50	275	1872	
	Boardman Place	Boardman	Easterly	6			100
Bolton		Sherman	Westerly	25	978	1875	
	Bolton	Sherman	Easterly	30			457
Bond		Concord av.	Garden	50	476	1882	
Bow		Mass. av.	Arrow	*40	235	1785	
Bow		Arrow	Mt. Auburn	45	720	1785	
	Bowdoin	Hudson	S. of Martin	30			243
Bowdoin		Martin	Linnaean	40	562	1883	
Boylston		Mass. av.	Charles river	60	1778	1895	
	Boyson Place	Valentine	Northerly	10			75
	Bradbury	Mt. Auburn	Sparks	20			567
	Bradford	Main	Esplanade	60			1187
Brattle		Mass. av.	Brown	60	3100		
"		Brown	Craigie	60 70	275	1635	
"		Craigie	Riedesel av.	70	475	to	
"		Riedesel av.	near Appleton	70 60	350	1870	
"		near Appleton	Mt. Auburn	60	3350		
Brattle Square		Brattle	Mt. Auburn			1635	
Brewer		Mt. Auburn	Southerly	20			374
Brewster		Sparks	Appleton	35	742	1887 1890	
Bridge		Craigie bridge	Lechmere sq.	75	1389	1839	
Bridge		Lechmere sq.	Somerville line	50	1750	1870	
	Brimmer Place	Burleigh	Munson	13			240
Bristol		Portland	Webster av.	40	504	1882	
Bristol		Webster av.	Hampshire	30	234	1874	
Bristol		Hampshire	Market	30	268	1900	
Broadway		Main	Cambridge	66	10150	1829	
	Broadway Ter'ce	Broadway	Southerly	15			228
	Brookford	Mass. av.	Railroad	40			477
Brookline		Mass. av.	Granite	40	3930	1824	
Brookline		Granite	Charles river	100	750	1902	
	Brooks	Main	School	20			198
	Brown	Brattle	Foster	20			490
	Bryant	Francis av.	Irving	50			787
Buckingham		Craigie	Concord av.	40	1213	1866	
	Buckingham Pl.	Buckingham	Easterly	30			235
Buena Vista Park		Upland rd.	Northerly	40	350	1896	
Buena Vista Park		Richdale av.	Southerly	30	180	1898	
Burleigh		Main	Broadway	40	810	1872	
	Burns Court	Foster	Southerly	16			160
	Butler Court	Plympton	Easterly	10			70
Cambridge		Bridge	Mass. av.	66	12000	1809	
	Cambridge Ter'e	Buena Vista pk.	Richdale av.	40			531
	Camden Place	Mt. Auburn	Northerly	16			140

* Varies in width — lines not parallel.

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Camelia Avenue	Cambridge	Line	40			500
Cameron		Mass. av	Seven Pines av	60	568	1896	
	Camp	Fair Oaks	Seven Pines av	40			390
Carlisle		Tremont	Prospect	40	263	1891	
	Carleton	Main	Deacon	40			167
Carleton		Deacon	Amherst	50	487	1902	
Carver		Museum	Sacramento	40	496	1898	
Cedar		Mass. av	Rindge av	40	1554	1870	
	Central Place	Western av	Northerly	20			100
Centre		Hancock	Dana	50	655	1848	
Channing		Brattle	Mt. Auburn	50	712	1871	
	Channing Place	Brattle	Northerly	40 30			294 170
	Chapman Place	Gerry	Brewer	20			135
	Charles	Commercial av	Second	50			997
Charles		Second	Sixth	50	1563	1857 1900	
	Charles	Sixth	Ninth	50			581
	Charles River Rd	Mt. Auburn	Main				
	" " "	Main	Greenhalge	40			5775
	" " "	Main	Greenhalge	30			6025
	" " "	Greenhalge	Brookline	30			2270
	" " "	Brookline	River	40			3070
	" " "	River	Western av	40			980
	" " "	Western av	Boylston	40			3250
	" " "	Boylston	Gerrys Land'g	40			4010
Chatham		Hancock	Dana	40	744	1859	
Chauncy		Mass. av	Concord av	45	1206	1863 1871	
Cherry		Main	Harvard	30	1095	1840 1892	
	Cherry Court	Cherry	Easterly	12			177
Chester		Mass. av	Somerville line	40	294	1870	
Chestnut		Pleasant	Sidney	40	190	1874 1875	
	Chestnut	Sidney	Waverly	40			374
	Chestnut Park	Charles	Northerly	35			100
Chilton		Concord av	Field	50	375	1896	
	Chilton	Huron av	Concord av	40			1338
Church		Mass. av	Brattle	30	677	1834	
	Church Place	Cambridge	Southerly	6			66
	Claflin	Vassar	Esplanade	60			960
	Clarendon Ave	Mass. av	Somerville line	30			730
Clark		Main	School	40	198	1870	
Clark		School	Hampshire	30	1274	1840 1901	
	Clark	Hampshire	Webster av	30	117	1877	
	Clark St. Place	Clark	Westerly	8			50
	Clary	Prospect	Westerly	40			200
Clay		Rindge av	Harvey	40	1361	1874	
	Clement Circle	Sparks	Easterly	30			222
Cleveland		Ellery	Dana	30	300	1886	
Clifton		Rindge av	Harvey	40	1363	1889 1902	
Clinton		Mass. av	Harvard	30	860	1863	
Cogswell Avenue		Mass. av	Fitchburg R.R.	40	930	1873	
	Cogswell Place	Mead	Cogswell av	20			514
Columbia		Mass. av	Somerville line	45	4090	1813 1874	
	Columbus Ave	Mass. av	Kimball	40			747
	Common	Harvard	Broadway	15			352
Commercial Ave.		First	Canal	60	2175	1900 1902	
Commercial Ave.		Canal	Bridge	60 63	270	1894 1902	
Concord Avenue		Waterhouse	Wellington	*50	10800	1829	
	Conlons Court	Third	Easterly	20			210
Coolidge Avenue		Mt. Anburn	Southerly	*60	2220	1886	
Coolidge Avenue		Watertown line	Northerly	*33	1340	1850	
	Coolidge Place	Mass. av	Northerly	20			170
Copley		Walden	Fayerweather	40	595	1896	
	Corliss Place	Antrim	Westerly	10			80

* Varies in width — lines not parallel.

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Cottage		Pearl	River	40	981	1873 1882	
	Cottage Court	Cottage	Southerly	10			130
Cottage Pk. Ave.		Mass. av.	Fitchburg R.R.	40	324	1902	
	Cottage Row	Green	Northerly	6			110
Cowperthwaite		Banks	DeWolf	40	619	1874	
	Crabbie	Richardson	Norfolk	20			110
Craigie		Concord av.	Brattle	50	1272	1852	
Creighton		Mass. av.	Southerly	40	665	1891	
Crescent		Oxford	Sacramento	30	660	1894	
Crescent Avenue		Walden	Raymond	40	975	1885	
	Cresto Terrace	Gore	Northerly	10			65
	Crossland	Clark	Bristol	20			202
	Cumnock Place	Mt. Auburn	Northerly	10			90
Cushing		Belmont	Huron av.	40	1860	1880	
	Cushing Avenue	Cushing	Ericsson	40			810
	Cushing Court	Cushing	Westerly	30			570
	Cutler Avenue	Huron av.	Southerly	40			142
	Cypress	Walden	Easterly	30			150
	Dailey Alley	Cambridge	Gore	10			192
Dale		Concord av.	Field	50	400	1896	
Dana		Mass. av.	Cambridge	40	2015	1635 1864	
Dana Square		Lawrence	Lake			1856	
	Danforth	Vassar	Amherst	60			571
Danforth		Amherst	Esplanade	60	241	1904	
Davenport		Mass. av.	Elm	35	615	1877 1894	
Davis		Harvard	Hampshire	30	490	1849	
Day		Mass. av.	Somerville	40	348	1886	
	Daye Court	Blackstone	Easterly	10			100
	Deacon	Main	Pioneer	30			230
Decatur		Brookline	Pearl	40	477	1874	
	Decatur	Brookline	Sidney	40			456
	Decatur Court	Decatur	Southerly	10			124
Dewolf		Mt. Auburn	Flagg	40	1375	1858 1886	
	Dewolf Place	Dewolf	Westerly	12			73
	Dickinson	Broadway	Davis	15			765
	Dinsmore Court	Willard	Westerly	22			181
	Distillhouse	Cambridge	Somerville	35			514
	Divinity Avenue	Kirkland	Northerly	70			1100
	Doane	Foster	Kenway	30			200
Dodge		Western av.	Grigg	30	218	1886	
Donnell		Concord av.	Garden	30	680	1889	
Douglass		Mass. av.	Austin	30	286	1872	
	Douglass Court	Douglass	Westerly	18			122
Dover		Mass. av.	Somerville	40	380	1886	
Dudley		Mass. av.	Clifton	40	1706	1897 1902	
	Dudley Court	Dudley	Northerly	14			134
Dunster		Mass. av.	Mt. Auburn	40	364	1857	
Dunster		Mt. Auburn	South	30 34	5 0	1635	
East		Bridge	B. & M. R. R.	50	450	1829	
	Eaton	Cherry	Pine	30			200
Eighth		Cambridge	Spring	40	624	1876 1896	
Eliot		Eliot sq.	Boylston	70	360	1870	
Eliot Square		Mt. Auburn	Murray			1635	
Ellery		Mass. av.	Cambridge	40	1907	1857 1869	
Ellsworth Ave		Broadway	Cambridge	40	927	1861	
	Ellsworth Park	Ellsworth av.	Easterly	30			227
Elm		Harvard	Somerville	40	2485	1873	
Elm		in Somerville	‡				
	Elmer	Sands	Northerly	25			426
Elmwood Ave		Brattle	Mt. Auburn	60	715	1635	
	Emery Court	Binney	Southerly	20			100
	Emily	Sidney	Brookline	40			442
	Emmett Place	Sixth	Easterly	10			100

‡ Elm Street in Somerville from White Street to Russell Street forms, with its south-westerly line, the city line between the two cities.

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Emmons Place..	Baldwin	Westerly.. ...	18	.....	.....	180
	Endicott...	Vassar	Esplanade.....	60	.....	.....	735
	Ericsson	Belmont line...	Cushing av....	40	....	.....	47
	Ericsson Court..	Green.....	Northerly	6	.....	.....	95
Erie.....	.....	Albany.....	Magazine	40	1900	1860 1899	
Essex.....	....	Mass. av.....	Austin..... .	31	280	1850	
Essex	.....	Austin.....	Harvard	40	827	1836	
	Essex Court.....	Essex.....	Westerly	13	.....	.....	80
Eustis.....	....	Oxford.....	Somerville	40	666	1900	
Everett.....	....	Mass. av.....	Oxford	50	848	1877	
	Exeter Park.....	Mass. av.....	Easterly	35	.....	.....	263
Fairfield.....	.....	Rindge av.....	Pemberton ...	40	610	1891	
Fairmont	.....	Magazine.....	River.	30	1167	1875 1876	
Fairmont Avenue	....	Fairmont	Somerset.....	30	430	1894	
	Fair Oaks.....	Cameron	Camp.....	40	.....	.....	200
Fairview Avenue	....	Oxford av.....	Belmont line..	50	207	1900	
	Fairview Ave...	Oxford av.....	Easterly	50	.....	.....	70
	Fallon Place.....	Banks	Easterly	17	.....	.....	154
Farrar.....	....	Scott.....	Holden	40	575	1891	
Farwell Place....	....	Brattle	Easterly	30	370	1844	
Fayerweather...	.....	Brattle	Vassal	48 50	310 1935	1863 1893	
Fayerweather....	.....	Concord av.....	Walden.....	50	962	1896	
Fayette	.....	Broadway.....	Cambridge	40	1266	1848	
	Fayette Park....	Fayette	Westerly	20	.....	.....	110
Felton.....	....	Broadway.....	Cambridge.....	40	412	1871	
Fenno.....	.....	Garden.....	Sherman... ...	40	238	1891	
	Fenno.....	Sherman	Easterly	40	.....	.....	368
Fern.....	....	Concord av. ...	Field	50	465	1896	
Field.....	....	Fayerweather..	Bay State rd...	40	1234	1896	
Fifth....	.....	Winter.....	Charles.....	50	1712	1829 1873	
	Fifth	Charles	Potter	50	.....	.....	1280
First.....	.....	Cambridge	S.of Thorndike	50	600	1871 1874	
First.....	.....	S. of Thorndike	Main	60	2600	1877 1894	
	Fisk Place.....	Washington....	Southerly.....	30	.....	.....	206
Flagg.....	.....	Putnam	DeWolf.	40	664	1874	
	Flagg St. Court.	Flagg.....	Southerly.. ...	10	.....	.....	150
Florence.....	.....	Magazine	Pleasant	40	.493	1873	
	Florence Place..	Norfolk.....	Westerly	7	.....	.....	70
Follen.....	.....	Concord av.....	Waterhouse..	30 40	940	1868	
Forest.....	.....	Mass. av.....	Somerville	40	916	1872	
	Forest Park....	Forest.....	Northerly.....	10	.....	.....	150
	Forrest Place....	Lambert.....	Westerly.....	5	.....	.....	50
Fort Washington	.....	Waverly	Talbot	.....	.....	1775	
Foster.....	.....	Willard.....	Lowell	40	1400	1874 1896	
	Foster Place....	Foster.....	Northerly.....	15	....	.....	200
Fourth...	.....	Bridge	Charles	50	2159	1829 1883	
	Fourth St. Place	Fourth	Westerly	10	.....	.....	80
Fountain Terrace	.....	Holworthy.. ...	Huron av.. ...	70 to160	150	*	
	Fowler.....	Vassar.	Esplanade.....	60	.....	....	677
	Frances Place...	Montgomery....	Westerly	16	.....	.....	100
	Francis Avenue.	Kirkland.	Bryant.....	45	.....	.....	867
Frank.....	.....	Mass. av.....	Somerville	40	480	1885	
Franklin..... ...	....	Sidney	Putnam av....	40	3890	1836 1873	
	Franklin	Sidney	Landsdowne...	40	.....	.....	433
	Franklin Place..	Franklin	Northerly.....	10	.....	.....	92
Fresh Pond Ave.	.....	Lexington av...	Vassal lane ...	50	410	1887	
Fresh Pond Ave.	.....	Concord av. ..	Vassal lane....	100	830		
Fresh Pond Lane	....	Huron av.....	Fresh Pond pk	40	520	1891	
	FreshP'd P'kw'y	Mt. Auburn....	Huron av.....	70	.....	.....	2700
	Frisbie Place....	Kirkland	Northerly	40	.....	.....	440

* Built by City about 1899—no record of acceptance.

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Front.	Windsor	Mass. av	40			180
	Front St. Court.	Mass. av	Southerly	10			150
Frost		Roseland	Harris	40	755	1872 1882	
	Frost Terrace	Mass. av	Easterly	20			130
Garden		Mass. av	Waterhouse	70	1278	1635	
"		Waterhouse	Chauncy	60	700	1635	
"		Chauncy	Linnaean	50 60	1311	1635	
"		Linnaean	Huron av	50	972	1865	
"		Huron av	Walden	40	1000	1874	
"		Walden	Field	40	1266	1896	
	Garden Terrace.	Garden	Westerly	30			250
Gardner		Tremont	Prospect	30	2-0	1871	
Garfield		Mass. av	Oxford	50	848	1882	
	George	Montgomery	Clay	20			240
	Gerry	Mt. Auburn	Charles R. rd	20			375
	Gibson	Mt. Auburn	Foster	40			484
	Gilmore	Western av.	Montague	40			748
	Gladstone	Mass. av	Bismarck	30			287
Glenwood Ave		Pearl	Magazine	40	476	1895	
	Gordon Place	Florence	Southerly	25			206
Gore		Bridge	Somerville line	50	2524	1810	
	Gore St. Place	Gore	Northerly	10			100
	Gorham	Wendell	Northerly	40			174
Gorham		Wendell	Hammond	30	311	1901	
	Gorham	Hammond	Museum	40			155
Granite		Brookline	Magazine	40	981	1899 1900	
Grant		Banks	Dewolf	40	590	1874	
Gray		Martin	Linnaean	40	475	1882	
	Gray Place	Harvard	Northerly	15			55
Green		Landsdowne	Putnam av	40	4582	1830 1895	
	Green	Putnam av	Westerly	40			212
	Greenhalge	Vassar	Esplanade	60			556
	Greenleaf	Ash.	Hilliard	30			516
Grigg		Howard	Putnam av	40	731	1877 1885	
	Grotto Place	Moore	Westerly	15			50
	Grove Avenue	Allston	Putnam av	30			300
	Groveland Road	Rindge av	F. R. R.	40			770
	Gurney	Huron av	Fayerweather	40			585
	Hadley	Mass. av	Northeasterly	30			330
Hamilton		Magazine	Pearl	40	451	1866	
Hamilton		Pearl	Brookline	40	492	1875	
	Hamilton	Brookline	Sidney	40			400
Hamlin		Plymouth	York	40	217	1900	
Hammond		Oxford	Carver	40	1135	1893	
Hampshire		Broadway	Somerville line	66	4410	1842	
	Hampshire Ct	Hampshire	Cambridge	12			190
	Hampshire Pl	Hampshire	Northerly	18			122
Hancock		Mass. av	Broadway	40	1191	1841 1859	
"		Mass. av	Franklin	26	470	1874	
"		Franklin	Kinnaird	30	164	*	
	Hancock Park	Hancock	Easterly	24			125
	Hancock Place	Hancock	Easterly	20			94
Harding		Cambridge	Somerville	40	550	1874	
Hardwick		Portland	Berkshire	40	300	1900	
	Harold Place	Cherry	Westerly	12			85
	Harrington Pl	Washington	Northerly	12			50
Harris		Frost	Oxford	40	374	1879	
Harris		Oxford	Somerville line	40	335	1900	
	Harris Place	Harris	Eustis	30			426
Harrison		Main	Washington	30	378	1873	
	Harrison Ave	Columbus av	Whittemore av	40			451
Harvard		Main	Mass. av	50	8400	1808 1825	
Harvard Square		Boylston	Peabody			1635	

* Record of acceptance lost.

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Harvey		Cedar	F. R. R.	30	760 950	1894 1895	
Haskell		Mass. av	Rindge av	40	503	1893	
Hastings		B. & A. R. R.	Moore	30	1143	1873	
	Hastings Ave	Phillips pl	Berkeley	25			527
Hastings Square		Henry	Chestnut	40	300	1882	
Hawthorn		Brattle	Mt. Auburn	40	622	1880	
	Hawthorn Ave	Fresh P'd pkwy	Huron av	45			1036
Hayes		Putnam av	Howard	30	698	1895	
Hayward		Main	Amherst	40	505	1902	
Hazel		Field	Garden	40	258	1896	
	Healey	Parker	Buckingham	40			430
	Henderson Ct	Day	Southeasterly	15			251
Henry		Pearl	Sidney	40	903	1882	
Henry		Sidney	Waverly	40	420	1884	
	Herbert	Richdale av	Cambridge ter	30			197
Hews		Western av	Grigg	40	282	1895	
High		Holworthy	Park av	40	506	1896	
Highland		Reservoir	Appleton	40	643	1870	
Highland		Appleton	Sparks	40	704	1887	
Highland Ave		Broadway	Cambridge	40	1042	1872	
	Highland Park	Highland av	Easterly	30			150
Hilliard		Brattle	Mt. Auburn	30	553	1851	
	Hilliard Place	Hilliard	Westerly	15			138
Hillside Avenue		Washington av	Avon Hill	40	350	1882	
	Hillside Place	Avon Hill	Easterly	20			150
Holden		Kirkland	Farrar	40	273	1891	
Holden		Farrar	Scott	40	410	1901	
Hollis		Mass. av	Rindge av	30	738	1890	
	Holly	Clark	Brooks	15			192
Holly Avenue		Madison	Huron av	30	376	1876	
Holmes		Park av	Holworthy	40	378	1896	
Holmes Place		Mass av	Kirkland	30	465	*	
	Holmes Row	Mass av	Green	12			186
Holworthy		Mt. Auburn	Fountain ter	50	1315	1880	
	Holworthy Pl	Holworthy	Park av	20			488
Holyoke		Mass. av	South	31	748	1798	
Holyoke		South	Mill	22	144	1898	
	Holyoke Place	Mt. Auburn	Holyoke	30			372
Homer Avenue		Mt. Auburn	Northerly	40	650	1889	
	Houghton	Prospect	Somerville	40			45
	Hovey Avenue	Cambridge	Northerly	40			579
Howard		Western av	Kinnaird	40	814	1874	
Howard		River	Western av	40	478	1880	
Howland		Hammond	Wendell	40	272	1894	
Hubbard Avenue		Walden	Raymond	40	760	1883 1892	
	Hubbard Park	Brattle	Foster				
Hudson		Mass. av	Hudson pl	28	430	1876	
	Hudson Place	Hudson	Northerly	14			94
Humboldt		Linnaean	Lancaster	30	360	1887	
Hunting		Cambridge	Somerville	40	540	1874	
Hurlbut		Martin	Linnaean	40	437	1882	
Huron Avenue		Raymond	Upland rd	40	405	1894	
" "		Upland rd	Concord av	50	1176	1894	
" "		Concord av	Fresh P'd lane	70	3851	1892	
" "		Fresh P'd lane	E. line F. R. R.	70	982	1891	
" "		E. line F. R. R.	Cushing st	70	1430	1894	
" "		Cushing st	Westerly	70	546	1880	
" "		Westerly	Concord av	40	5000	1880	
	Hutchinson	Appleton	Walden	40			420
	Hutchinson	Vassar	Esplanade	70			470
Inman		Hampshire	Broadway	40	1325	1855	
"		Broadway	Harvard	37	390	1890	
"		Harvard	Austin	37	625	1857	
"		Austin	Mass. av	35	350	1830	
Inman Place		Inman	West pl	35	184	1900	
	Inman Place	West pl	Broadway ter	15			174
Inman Square		Cambridge	Hampshire			1876	
Irving		Broadway	Kirkland	40	1374	1871	
Irving		Kirkland	Bryant	50	775	1889	

* No formal acceptance.

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Irving Terrace..	Irving.....	Summer.....	30	.....	.....	410
Ivy.....	.....	Fayerweather..	Garden.....	40	252	1896	
Jackson..	.....	Rindge av.....	Harvey.....	40	1367	1902	
James.....	.....	Battle.....	Mason.....	40	212	1871	
	Jarvis.....	Mass. av.....	Oxford	50	.....	.....	849
Jay.....	.....	River.....	Kinnaird.....	40	1016	1874 1881	
	Jay St. Place....	Jay.....	Easterly	10	.....	.....	80
Jefferson.....	.....	Warren.....	Harding.....	34	620	1874	
	Jordan Place....	Broadway.....	Southerly	20	.....	.....	110
				30	.....	.....	380
Kelley Square...	.....	Bridge	Gore	.....	.....	1900	
Kendall Square..	.....	Main	Broadway.....	.....	.....	1856	
	Kennedy Ave...	Brattle	Northerly	30	....	.....	302
	Kenway.....	Doane.....	Gibson	30	.....	.....	215
Kenwood.....	.....	Putnam av.....	Northerly.....	30	310	1901	
	Kenwood...	Somerset.....	Northerly	30	.....	.....	100
	Kimball.....	Columbus av...	Whittemore...	40	.....	.....	416
	King	Walden.....	Easterly	30	.....	.....	110
	King Place.....	Amory	Westerly.....	30	.....	.....	150
	Kingsley Park..	Fresh Pond....	F. R. R.....				
Kinnaird.....	.....	Pleasant.....	Bay	40	1614	1872 1874	
Kinnaird.....	.....	Bay.....	Putnam av....	35	503	1874	
Kirkland.....	.....	Mass. av.....	Somerville ...	66	3160	1635	
	Kirkland Place..	Kirkland	Northerly	30	.....	.....	500
Kirkland Road...	....	Kirkland	Southerly.....	30	230	1898	
Lafayette Square	.....	Columbia	Mass. av.....	.....	.....	1881	
Lake.....	.....	Pearl.....	Magazine	40	440	1874	
Lake View Ave..	.....	Brattle.....	Fresh Pond av.	50	2940	1874	
Lambert.....	.....	Gore....	Cambridge	30	370	1874	
	Lamont Avenue.	Magnolia av....	Southerly.....	30	.....	.....	150
	Lamson Place...	Essex	Easterly	20	.....	.....	144
Lancaster.....	.....	Mass. av.... ...	Washingt'n av.	30	446	1883	
				40	520	1887	
Langdon	.....	Mass. av.....	Chauncy.	40	225	1898	
				60	275	1898	
				30	225	1898	
Langdon Square.	.....	Langdon.....	.....	.....	.....	1898	
Landsdowne.....	.....	Mass. av.....	Green.....	50	257	1895	
	Landsdowne....	Green	Pacific	50	.....	.....	983
Larch Road.....	.....	Brattle	Fresh Pond av.	40	2196	1883	
Laurel.....	.....	Pleasant	River.....	30	304	1904	
	Lawn Court.....	Oxford av.....	E. of May.....	40	.....	.....	585
	Lawn.....	Cushing	May..... ...	30	.....	.....	490
Lawrence.....	....	Pearl	Magazine	40	447	1873	
Lechmere Sq....	.....	Bridge.....	Cambridge	.....	.....	1635	
Lee.....	.....	Mass. av.....	Broadway	45	1215	1809	
	Leighton Court.	East	Westerly	30	.....	.....	200
Leonard Ave....	.....	Cambridge	Line.....	40	685	1895	
Lexington Ave..	.....	Brattle.....	Fresh Pond av.	45	2637	1874	
	Lilac Court.....	Portland.....	Northerly.....	16	.....	.....	120
Lincoln.....	.....	Willow	Elm	40	757	1873 1900	
	Lincoln Place...	Lincoln.....	Northerly.....	20	.....	.....	150
Linden.....	.....	Mass. av.....	Mt. Auburn....	25	371	1803	
Line	.....	Kirkland	Cambridge	33	1835	1902	*
	Linehan Court..	Third	Westerly	10	.....	.....	107
Linnaean.....	....	Mass. av	Garden	50	2183	1724	
	Linwood Place..	Broadway	Northerly.....	20	.....	.....	80
	Livermore Pl....	Union	Westerly	18	.....	.....	114
Locke.....	.....	Meacham rd ...	beyond Frank.	30	693	1892	
Locust.....	....	Holworthy.....	Cushing	40	295	1880	
	Locust Court....	Locust	Northerly.....	20	.....	.....	190
	Longfellow Pk..	Brattle	Mt. Auburn...				
Lopez.....	....	Brookline	Pearl	40	475	1874	
	Loughrey Ave..	Pioneer	Pelham.....	12	....	.....	200
Lowell.....	.....	Brattle	Mt. Auburn....	40	887	1884	
	Lowell Park....	Brattle	Mt. Auburn....				
	Lowland Ave...	Spring.....	Charles.....	20	.....	.....	400
	Lyman.....	Murray.....	University rd..	40	.....	.....	395

* Partly in Somerville.

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Madison		Concord av.	Garden	30	693	1904	
	Madison Ave.	Columbus av.	Whittemore av	40			613
Magazine		Central sq.	Magazine B'ch	50	4117	1845 1895	
	Magazine Court.	Magazine	Kenwood	20			260
Magee		Putnam av.	Grigg	40	778	1877 1897	
Magnolia Ave.		Baldwin	Line	40	668	1896	
Magoun		Mass. av	Whittemore av	40	675	1901	
Main		W. Boston b'dge	Broadway	105 116	720 600	1635 1635	
Main		Broadway	Mass. av	70	4430	1635	
Maple Avenue		Broadway	Cambridge	40	1152	1862	
Marcella		Portland	Berkshire	40	300	1901	
Marion		Cambridge	Jefferson	30	250	1887	
Market		Broadway	Elm	42	1450	1852	
Marney		Portland	Berkshire	40	300	1898	
Martin		Mass. av	Bowdoin	40	314	1882	
Martin		Bowdoin	Avon	35	514	1894	
	Marvin Place	Columbia	Easterly	12			80
Mason		Brattle	Garden	50	606	1635	
Mass. Avenue		Harvard bridge	Columbia	90	3314	1889	
" "		Columbia	Pleasant	103	1725	1635	
" "		Pleasant	Putnam av.	103 63	2590	1635	
" "		Putnam av.	Harvard	63	960	1635	
" "		Harvard	Harvard sq.	70	1100	1635	
" "		Harvard sq.	Everett	66 160	2390	1635	
" "		Everett	Alewife Brook	98 100	9650	1635	
	May	Lawn et.	N. of Vineyard	40			455
	Maynard Place	Mt. Auburn	Northerly	20			283
	McDonnell Court	Reed	Westerly	15			100
	McLean Place	Cedar	Dudley	30			352
Meacham Road		Mass. av	Locke	40	413	1880	
Mead		Walden	Cogswell av.	40	340	1873	
Mechanic Square		Hampshire	Broadway			1900	
Mellen		Mass. av	Oxford	50	845	1873	
Mercer Circle		Brattle	Sparks	40	445	1885	
Middlesex		Rindge av.	Wilson av.	40	308	1895	
	Middlesex	Wilson av.	Fitchburg R.R.	40			795
	Mifflin Place	Mt. Auburn	Northerly	25			196
Mill		De Wolf	Holyoke	35	686	1874	
	Miller Avenue	Orchard	Elm	20			338
Milton		Mass. av	Somerville	30	287	1893	
	Montague	Western av.	River	40			673
Montgomery		Rindge av.	Harvey	40	1360	1896	
Moore		Main	Broadway	30	1080	1840 1875	
Mt. Auburn		Putnam sq.	Brattle sq.	50	2426	1635	
" "		Brattle sq.	Bath	70	1221	1635	
" "		Bath	Elmwood av.	66	3365	1635	
" "		Elmwood av.	Belmont	63 to 125	3380	1635	
	Mt. Auburn Pl.	Mt. Auburn	Southerly	12			110
Mt. Pleasant		Upland rd.	Walden	40	584	1877	
Mt. Vernon		Mass. av	Upland rd.	50	802	1884	
	Mullens Court	Winter	Southerly	20			100
Munroe		First	Third	50	1094	1902	
Munroe		Third	Sixth	50	896	1890	
	Munson	Washington	Harvard	30			300
	Murdock	Hampshire	Gardner	16			426
	Murray	Eliot sq.	Charles R'y'r'rd	50			810
Museum		Carver	Somerville	40	180	1902	
	Museum	Gorham	Carver	40			632
Myrtle Avenue		Magnolia av.	Kirkland	30	515	1893	
	Myrtle Place	Moore	Westerly	10			50
	Neil	Jackson	Clifton	20			240
New		Concord av.	Northerly	45	700	1874	
	Newman	Mass. av	Bismarck	30			256

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Newton.	Chestnut	Putnam av.	40			300
Niagara		Lawrence	Lake	40	200	*	
	Nichols Place	Baldwin	Westerly	13 17			115 72
	Niles Lane	Concord av.	Northerly	30			900
Ninth		Cambridge	Vine	50	1004	1876 1896	
	Ninth	Vine	Binney	50			950
Ninth		Binney	Potter	50	327	1882	
Norfolk		Mass av.	Somerville line	40	3710	1809 1874	
	Norfolk Court	Norfolk	Elm	20			215
	Norfolk Place	Norfolk	Westerly	10			60
	Norman	Belmont	Northerly	40			215
Norris		Mass. av.	Cedar	40	663	1883	
North		Water	East	50	740	1829	
	Norton Place	Martin	Southerly	12			85
	Norumbega	Belmont	Northerly	40			210
Nutting Place		Mt. Auburn	Southerly	30	260	1896	
Oak		Cambridge	Somerville	30	270	1883	
	Oak Circle	Oak	E'st'ly & Nor'ly	30	350	1904	
	Olive Place	Montgomery	Westerly	15			100
Oliver		Huron av.	Winslow	30	205	1886	
Orchard		Davenport	Russell	40	1312	1859 1865	
Orrin		Garden	Winslow	30	295	1886	
Osborn		Main	State	40	227	1893	
Osborn		State	Albany	35	465	1895	
Otis		First	Sixth	50	1900	1831 1876	
"		Sixth	Ninth	40	445		
"		Ninth	R. R.	40	200	1876	
Otter		Cowperthwaite	De Wolfe	40	160	1874	
Oxford		Kirkland	Somerville	50	3480	1847 1872	
	Oxford Avenue	Fairview av.	Belmont	40			285
Pacific		B. A. R. R.	Brookline	40	470	1875 1902	
Palermo		Willow	Windsor	40	312	1898	
	Palmer	Brattle	Church	25			337
Park		Magazine	Pleasant	40	513	1876	
Park Avenue		Huron av.	Holworthy	50	956	1896	
Parker		Concord av.	Buckingham	40	723	1891	
	Parnell	Cambridge	Otis	25			200
Peabody		Harvard sq.	Kirkland	66	440	1886	
Pearl		Mass. av.	Charles R'v'rd	40	4100	1822 1871	
	Pearl St. Place	Pearl	Easterly	20			70
	Pelham	Broadway	Main	30			352
	Pelham	Main	Amherst	50			790
Pemberton		Rindge av.	Fairfield	40	960	1891	
	Pemberton Ter.	Pemberton	Easterly	15			100
	Pemberton Ct.	Pemberton	Southerly	20			110
	Percy Place	Essex	Easterly	20			145
Perry		Pearl	Magazine	40	448	1873	
	Phillips Place	Mason	Garden	35 30			666
Pilgrim		Brookline	Sidney	40	500	1893	
	Pilgrim	Sidney	Landsdowne	40			288
Pine		School	Harvard	30	1008	1840 1845	
Pioneer		Main	Broadway	30	250	1903	
	Pioneer Avenue	Broadway	Pelham	12 20			434 66
Pleasant		Mass. av.	Florence	40	3340	1845 1873	
Pleasant		Florence	Charles R'v'rd	40	400	1900	
	Pleasant Place	Pleasant	Easterly	30			355
Plymouth		Portland	Hampshire	40	1068	1883 1894	

* No formal acceptance.

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Plympton		Mass. av	Bow	30	365	1803	
Plympton		Bow	Riverview av.	40	616	1890	
	Plympton Place	Plympton	Westerly	10			120
	Pond Place	Putnam av	Easterly	10			55
Porter		Warren	Harding	34	641	1874	
	Porter Circle	Porter rd	Northerly	25			100
	Porter Park	Porter rd	Southerly	20			120
Porter Road		Mass. av	Westerly	40	847	1900	
Porter Square		Mass. av	Somerville av.			1896	
Portland		Albany	Cambridge	50	3833	1872 1875	
Portsmouth		Webster av	Hampshire	40	327	1892	
	Potter	Third	Sixth	50			866
Potter		Sixth	Ninth	50	396	1882	
	Potter Park	Linnæan	Southerly	25			160
Prentiss		Mass. av	Frost	30	414	1898	
Prescott		Harvard	Cambridge	40	1060	1858 1886	
Prince		Magazine	Pleasant	30	530	1870	
	Princeton Ave.	Ames	Esplanade	100			5750
Prison Point		Bridge	Charlestown	50	1339	1839	
Prospect		Mass. av	Somerville	50	3330	1804 1873	
Putnam Avenue		Mass. av	Western av	40	2025	1840	
" "		Western av	Pleasant	50	1530	1873	
" "		Pleasant	B. & A. R. R.	40	2373	1876	
	Putnam Court	Putnam av	Southerly	30			110
Putnam Square		Mt. Auburn	Mass. av			1893	
Quincy		Quincy sq	Kirkland	40	1406	1853	
Quincy Square		Quincy	Mass. av			1876	
	Radcliffe	Mass. av	Claflin	50			1110
	Railroad	Sherman	Yerxa rd	40 30			768 605
Raymond		Linnæan	Crescent av.	40	2544	1856 1896	
	Reardon	Waverly	B. & A. R. R.	30			265
Reed		Rindge av	Harvey	40	1358	1874	
	Reed St. Court	Reed	Montgomery	7			240
Regent		Mass. av	Fitchburg R.R.	40	500	1877	
Remington		Mass. av	Harvard	40	361	1861	
Reservoir		Fayerweather	Vassal lane	50	1666	1863	
	Revere	Mt. Auburn	Gerry	15			254
Rice		Mass. av	Rindge av	40	983	1864	
	Richardson	Norfolk	Elm	20			220
Richdale Avenue		Upland rd	Walden	45	1188	1893	
Riedesel Avenue		Brattle	Brewster	35	350	1890	
Rindge Avenue		Mass. av	Cedar	50	1650	1870	
Rindge Avenue		Cedar	L. & A. R. R.	40	3450	1870	
	Rindge Terrace	Rindge av	Northerly	20			110
	Rindgefield	Rindge av	Northerly	32			200
River		Central sq	Charles River	50	3490	1858	
	Riverside Place	Western av	Northerly	20			120
Riverview Ave		De Wolf	Westerly	35	625	1874	
Rockingham		Henry	Granite	40	380	1885	
	Rockingham Pl.	Rockingham	Eastely r	18			
Rockwell		Pleasant	River	30	383	1895	120
	Rogers	First	Ninth	50			2468
	Rogers Court	Portland	Burleigh	35			255
	Rollins Court	Watson	Southerly	10			130
Roseland		Mass. av	Somerville	40	576	1862	
Royal Avenue		Huron av	Concord av	40	540	1902	
Russell		Mass. av	Somerville	40	280	1859	
Rutland		Shepard	Langdon	40	336	1903	
Sacramento		Mass. av	Somerville	40	1725	1854	
	Sacramento Pl.	Sacramento	Northerly	24			245
	Saginaw Avenue	Elm	Davenport	25			275
	Saint Paul	Prospect	Westerly	30 35			285 200
Salem		Auburn	Watson	27	260	1877	
Sands		Putnam av	Banks	40	323	1875	
Sargent		Rindge av	Railroad	30	841	1900	

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Saville		Appleton	Walden	40	357	1893	
School		Portland	Windsor	40	885	1872, 1889	
School		Windsor	Austin	30	640	1845	
	School St. Place.	School	Northerly	12			60
Scott		Irving	Somerville	50	929	1889	
Seckle		Webster av	Windsor	30	275	1887	
Second		Gore	Athenæum	50	2755	1829, 1902	
	Second St. Court	Second	Easterly	20			100
	Seven Pines Ave	Cameron	Yorktown	40			315
Seventh		Gore	Cambridge	30	265	1897	
Seventh		Cambridge	Spring	40	703	1876, 1895	
Shepard		Mass. av	Garden	40	1500	1852	
	Sheridan	Raymond	Wood	40			505
Sheridan Square		Cedar	Rindge av			1897	
Sherman		Huron av	Rindge av	40	3630	1860, 1872	
Short		Bridge	North	40	200	1829	
	Sibley Court	Sparks	Westerly	15			160
Sidney		Mass. av	Henry	40	3592	1873, 1900	
Sixth		Gore	Main	50	3620	1829, 1874	
	Smart	State	Mass. av	30			425
Soden		Western av	Franklin	40	463	1874	
	Soden Place	Soden	Westerly	10			80
Somerset		Putnam av	Kenwood	30	700	1877, 1894	
Somerville Ave		Somerville line.	Porter sq	70, 120	440	1872	
South		Holyoke	Boylston	21	446	1635	
Sparks		Mt. Auburn	Huron av	40	2445	1850, 1893	
	Sparks St. Court	Huron av	Concord av	20			500
Spring		First	Ninth	50	2425	1835, 1900	
	Spring Place	Spring	Northerly	5			260
Springfield		Cambridge	Somerville	40	226	1876	
	Spruce Avenue	Holworthy	Cushing	30			340
	Squires Court	Gore	Southerly	20			220
	Standish	Huron av	Vassal lane	40			935
State		Mass. av	Osborn	40	930	1813, 1891	
Stearns		Garden	E. of Sherman	40	606	1903	
	Sterling Terrace	Columbia	Westerly	10			210
	Stevens Court	Fourth	Westerly	15			150
	Stiles	Banks	Charles R'v'rrd	40			258
	Stinson Court	Somerset	Southerly	12			175
Story		Bratt e	Mt. Auburn	33	470	1865	
Suffolk		Columbia	Norfolk	30	520	1834	
	Sullivan Place	River	Northerly	10			220
Summer		Prospect	Inman	30	500	1876, 1884	
Sumner		Cambridge	Kirkland	40	5?0	1844	
Surrey		Putnam av	Banks	40	280	1885	
	Sycamore	Walden	Easterly	30			150
Talbot		Waverly	B. & A. R. R.	30	203	1879	
Tannery		Mass. av	Almshouse	30, 40	600	1891	
Temple		Mass av	Austin	36	284	1865	
	Tenney	Orchard	Elm	20			373
	Third	E. C. Depot	Bridge st	45			120
Third		B. & M. R. R.	Bridge	45		1829	120
"		Bridge st	Cambridge	50	495	1829	
"		Cambridge	Charles	50	1458	1832	
"		Charles	Broad Canal	60	1517	1832	
"		Broad Canal	Main	50	352	1832	
	Third St. Court.	Third	Broadway	25			260

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Thorndike		First	B. & A. R. R.	50 40	1900 860	1829 1898	
	Torrington Place	Washington	Northerly	15			150
Traill		Mt. Auburn	Elmwood av.	40	460	1892	
Traymore		Eustis	Harris	30	255	1900	
Tremont		Broadway	Somerville	40	2050	1851 1874	
Trowbridge		Mass. av	Kirkland	40	2690	1871 1884	
	Trowbridge Pl.	Trowbridge	Westerly	30			180
	Trowbridge Ter.	Trowbridge	Easterly	15			100
Tudor Park		Fresh Pond av.	Fresh Pond			1880	
Tufts		Magazine	Pearl	40	472	1874	
	Tuttle	Donnell	Huron av.	30			596
	Tyler Court	Mass. av.	Southerly	20			210
Union		Market	Lincoln	30	993	1873 1877	
	Union Place	Union	Westerly	16			110
	Union Terrace	Union	Westerly	16			105
	University Road	Mt. Auburn	CharlesR'v'rrd	40 35			200 490
Upland Road		Mass. av.	Huron av.	50	2944	1881 1894	
Upton		Magazine	Pleasant	40	493	1873	
Valentine		Brookline	Pearl	40	484	1877	
	Vandine	Portland	Berkshire	25			300
Van Norden		Middlesex	Yerxa rd.	40	338	1903	
Vassal Lane		Huron av.	Lake View av.	40	2200	1888	
	Vassar	Mass av.	Main	50			1540
Vassar		Mass. av.	Danforth	50	508	1895	
	Vassar	Danforth	Princeton av.	50			2500
Vernon		Mass. av.	Green	40	205	1874	
	Village	State	Mass. av.	20			220
Vincent		Upland rd	Walden	40	357	1889	
Vine		First	Sixth	50	1500	1849 1900	
	Vine	Sixth	Ninth	50			530
Vineyard		Cushing	May	40	365	1876	
Wadsworth		Main	Esplanade	40	661	1902	
Walden		Mass. av.	F. R. R.	40	830	1860	
Walden		F. R. R.	Vassal lane	50	3900	1860	
Walker		Garden	Linnaean	40	1680	1875 1894	
	Walker Court	Flagg	Southerly	20			160
	Walker St. Place	Walker	Southerly	30			80
	Walker Terrace.	Walker	Southerly	12			120
Walnut Avenue		Arlington	Upland rd.	70	476	1882	
Ware		Harvard	Broadway.	40	690	1880	
Warland		Magazine	River	40	752	1867 1903	
Warren		Cambridge	Somerville	40	485	1874	
	Warren Place	Banks		10			120
	Washburn Ave.	Mass. av.	Somerville	30			680
	Washburn Ter.	Washburn av.	Yorktown	20			160
Washington		Main	Windsor	40	1600	1836 1845	
Washington		Windsor	Norfolk	30	1240	1836 1847	
Washington Ave.		Linnaean	Upland Rd.	50	1190	1882 1888	
	Washington Ct.	Washington	Northerly	15			150
Washington Sq.		Waverly	Talbot			1775	
Water		Bridge	North	50	250	1829	
	Water	North	Mystic River	50			350
Waterhouse		Garden	Mass. av.	54	710	1724	
Watson		Brookline	Pearl	40	460	1873	
Waverly		Erie	Henry	40	1160	1879	
Webster Avenue		Hampshire	Somerville	50	2680	1809 1880	
	Wellesley Ave.	Main	Vassar	50			3230

LIST OF STREETS AND WAYS—*Concluded.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Wellington		Concord av.	Belmont	40	1330	0881	
Wendell		Mass. av.	Oxford	50	986	1873	
Wendell		Oxford	Carver	40	765	1894	
	Westley Avenue	Harvey	Fitchburg R.R.	30			160
West		Inman	Lee	37	585	1900	
	West Place	Broadway	West	15			230
	Westacott Court	Putnam av	Northerly	14			114
Western Avenue		Mass. av.	Charles River.	66	3344	1855	
White		Somerville av.	Elm	30	603	1885 1893	
	Whitney Avenue	Huron av.	Vassal lane	40			516
Whitney Avenue		Putnam av.	Chestnut	30	300	1891	
Whitney Court		Essex	Easterly	10			80
	Whittemore Ave	Magoun	Kimball	40			1030
Whittier		Upland rd	Walden	40	362	1889	
Wilbur		Harvey	Southerly	40	400	1903	
Willard		Brattle	Mt. Auburn	40	786	1874	
	Willard St. Court	Willard	Easterly	20			200
William		Pearl	River	40	832	1857 1875	
Willow		Webster av.	Somerville	40 30	978 530	1896 1874	
	Wilson Avenue.	Middlesex	Easterly	40			165
Winslow		Orrin	Sherman	30	348	1886	
Windsor		Somerville line	School	50	3500	1809	
Windsor		Mass. av.	School.	40	730	1891	
Winter		Third	Fifth	50	980	1848 1859	
	Winter St. Place.	Winter	Northerly	20			100
	Winthrop	Holyoke	Eliot sq.	20 30			196 516
	WinthropSquare	Boylston	Mt. Auburn	40		1635	135
	Wood	Walden	Sheridan	40			375
Woodbridge		Mass. av.	Locke	40	375	1892	
Worcester		Columbia	Norfolk	32	480	1873	
Worthington		Lake View	Lexington.	50	305	1894	
Wright		Hudson	Martin	30	283	1901	
Wyeth Square		Huron av.	Garden			1888	
Wyeth Terrace		Lexington	Larch	40	690	1895	
Wyman		Avon Hill	Raymond	40	165	1900	
	Yerxa Road	Rindge av.	F. R. R.	40			867
York		Webster av.	Berkshire	40	510	1896	
Yorktown		Mass. av.	Seven Pines av	40	560	1903	
	Yorktown Court.	Yorktown	Washburn av.	20			122
					99.286		23.345

99.286 miles of accepted streets.
23.345 " " unaccepted "

122.631 " total Jan. 1, 1905.

REPORT OF THE COMMISSIONER OF BOSTON AND CAMBRIDGE BRIDGES

To the Honorable, the City Council: —

Gentlemen: — In accordance with the provisions of Section 3, Chapter 5, of the Revised Ordinances, the undersigned respectfully submits his report as Bridge Commissioner for the year ending November 30, 1904.

This commission is established under Section 14, Chapter 467, of the Acts of 1898. This act places all bridges and draws between the two cities in charge of the commission "to support, manage and keep in repair and to authorize exclusively the placing of poles, wires and other structures upon them." The expense of maintenance is borne equally by the City of Boston and the City of Cambridge. The bridges under the charge of this commission are as follows: Craigie, Prison Point, West Boston, Harvard, Brookline Street, River Street, Western Avenue and North Harvard Street. The following tables show the amounts expended by the City of Cambridge for maintenance and repairs of each bridge, the number of times the draws have been opened and the number of vessels which have passed through each bridge and the amount received and turned into the City Treasury as revenue.

There does not appear to be anything special to report on any of the above-named bridges with the exception of the Harvard bridge. The usual repairs have been made from time to time on all these bridges and they are at present in fair condition.

During the work made necessary by the separation of grades at Prison Point Street the present temporary bridge there is maintained and repaired by the Boston & Maine Railroad, this Commission only having charge of the operation of the draw. The construction of the proposed dam by the Charles River Basin Commission will cause the abandonment of the Craigie bridge some time early in the summer and we shall then have charge of the temporary structure to be used in its place.

Plans have already been approved for building a new bridge on the site of the present Brookline Street bridge, and preliminary work done

looking towards the construction of a new and up-to-date structure at North Harvard Street, otherwise known as Boylston Street bridge.

With regard to Harvard bridge the thing of most particular importance is the condition of the sidewalks. The asphalt laid there is practically worn out and the decking on which it is laid in many cases decayed and barely safe for travel. The Commissioners recommend that an appropriation be made sufficient to build new hard pine sidewalks on both sides of the bridge its entire length, and estimates of the probable cost will be submitted to the Mayor when the budget is made up.

Besides covering the work done since the undersigned became Commissioner, the foregoing report covers the work done in the first seven months of the year under the direction of the late William J. Marvin, who, for a period of twenty-one years, faithfully served the City in this office.

Respectfully submitted,

GEO. M. CLUKAS,
Bridge Commissioner.

CITY OF CAMBRIDGE.

Items.	Appropriation.	Expended.	Balance Nov. 30, 1904.
Salaries and Labor	$10,750 00	$10,651 52	$98 48
General Expenses	6,500 00	6,143 11	356 89
Total	$17,250 00	$16,794 63	$455 37

CLASSIFICATION OF EXPENDITURES BY CITY OF CAMBRIDGE.

Object of Expenditures. Dec. 1, 1903—Nov. 30, 1904.	Brookline Street.	Boylston Street.	Canal or Craigie.	Harvard.	Prison Point.	River Street.	West Boston.	Western Avenue.	General Account.	Totals.
Pay-rolls, Draw Tenders *	$670 00	$513 92	$2,149 84	$1,792 84	$1,523 16	$623 97	$1,675 88	$685 28	.....	$9,634 89
Electric Light	177 59	.....	309 73	1,154 00	.....	49 50	620 85	49 50	.....	2,361 17
Lumber	204 46	60 16	187 48	386 82	6 25	45 77	.....	299 91	.....	1,190 85
General Repairs	105 86	22 87	298 60	300 81	31 93	30 38	.....	271 07	.....	1,061 52
Cleaning Bridges	.....	.....	73 25	131 25	.....	.....	188 63	.....	.....	393 13
Iron Works	13 64	43 65	45 89	90 57	.....	37 36	.....	53 05	.....	284 16
Fuel	26 45	.....	165 74	19 20	19 20	9 60	32 57	.....	.....	272 76
Tools and Hardware	10 23	6 85	25 33	57 37	3 93	10 16	18 99	15 94	.....	148 80
Electric Current	.....	.....	.....	120 00	.....	.....	.....	.....	.....	120 00
Sundries	10 11	2 55	35 17	26 37	9 69	4 82	25 27	2 23	.....	116 21
Paint and Painting	.....	76	.....	2 40	.....	2 44	.....	47 62	.....	53 22
Watering Roadways	.....	.....	31 00	.....	.....	.....	.....	.....	.....	31 00
Water Rates	.....	.....	8 99	.....	.....	.....	.....	.....	.....	8 99
Commissioner	.....	.....	.....	.....	.....	.....	.....	.....	$766 63	766 63
Secretary	.....	.....	.....	.....	.....	.....	.....	.....	250 00	250 00
Travelling Expenses	.....	.....	.....	.....	.....	.....	.....	.....	50 00	50 00
Telephone	.....	.....	.....	.....	.....	.....	.....	.....	22 34	22 34
Stationery and Postage	.....	.....	.....	.....	.....	.....	.....	.....	20 53	20 53
Printing	.....	.....	.....	.....	.....	.....	.....	.....	8 43	8 43
	$1,218 34	$650 76	$3,331 02	$4,081 63	$1,594 16	$814 00	$2,562 19	$1,424 60	$1,117 93	$16,794 63
*Extra help during vacations of Draw Tenders included in above	$28 00	$14 00	$70 00	$43 00	$63 00	$14 00	$56 00	$42 00	.....	$330 00

Salaries of Commissioner, Secretary and Draw Tenders,	$10,651 52
General Expenses	6,143 11
Total	$16,794 63

NUMBER OF TIMES THE DRAWS IN THE BOSTON & CAMBRIDGE BRIDGES HAVE BEEN OPENED AND THE NUMBER OF VESSELS WHICH HAVE PASSED THROUGH FOR THE YEAR BEGINNING DECEMBER 1, 1903, AND ENDING NOVEMBER 30, 1904.

Date.	Boylston Street.		Brookline Street.		Craigie's.		Harvard.		Prison Point.		River Street.		West Boston.		Western Avenue.	
December 1, 1903. November 30, 1904.	No. of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No. of Vessels Passing Through.	No of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No of Vessels Passing Through.
December, 1903	12	17	49	108	113	319	139	165	39	125	28	43	98	241	16	23
January, 1904	0	0	4	7	85	139	20	24	11	32	2	5	12	20	0	0
February, "	0	0	0	0	41	64	0	0	16	48	0	0	0	0	0	0
March, "	4	6	6	9	130	205	16	31	24	48	6	9	24	41	4	6
April, "	28	41	59	92	172	272	86	131	25	51	53	94	108	189	36	65
May, "	4	18	20	29	229	371	53	74	23	43	6	30	101	185	4	22
June, "	24	41	24	41	268	477	73	100	29	83	24	41	164	315	24	41
July, "	16	24	16	24	235	434	76	90	49	101	16	24	143	308	16	24
August, "	22	36	22	33	308	530	83	107	52	107	24	39	106	232	22	36
September, "	10	15	11	18	256	447	74	88	24	57	12	18	75	150	10	15
October, "	20	32	22	33	257	453	86	102	29	62	20	32	340	731	20	32
November, "	8	12	24	40	232	434	92	109	23	43	20	34	84	195	8	12
Totals	148	242	257	440	2,320	4,145	798	1,021	344	800	211	369	1,255	2,607	160	276

BOSTON AND CAMBRIDGE BRIDGES.

CITY OF CAMBRIDGE.

December 1, 1903. REVENUE. November 30, 1904

Date.	Collected by	Total Amount.	Cambridge One-half.
1904			
May 4	William J. Marvin	$140 00	$70 00
Aug. 10	George M. Clukas	20 00	10 00
Sept. 9	" " "	116 00	58 00
Oct. 12	" " "	201 00	100 50
Nov. 2	" " "	46 70	23 35
Nov. 21	" " "	187 15	93 57
Nov. 29	" " "	50 00	25 00
	Total	$760 85	$380 42

BOSTON AND CAMBRIDGE BRIDGES.

CITY OF CAMBRIDGE.

December 1, 1903. REVENUE. November 30, 1904

Date.	L. B. and Page	Items.	Bridge.	Total.	One-half Boston.	One-half Cambridge
1904						
May 4	6-27	Louis Gaffer, house rent	Craigie	$40 00	$20 00	$20 00
		Philip Grebber, house rent	"	60 00	30 00	30 00
		Yacht "Gleam," wharfage	"	40 00	20 00	20 00
Aug. 10	6-54	J. Freedman, house rent	"	20 00	10 00	10 00
Sept. 9	6-62	J. Freedman, house rent	"	20 00	10 00	10 00
		J. A. Gorman, old lumber	Harvard	1 00	50	50
		W. B. Hoitt, Farrell Boat house	W. Boston	25 00	12 50	12 50
		W. B. Hoitt, old wood	W. Boston	50 00	25 00	25 00
		A. W. Smith, wharfage, barge "Charles F. Mather"	Craigie	20 00	10 00	10 00
Oct. 10	6-71	J. Freedman, house rent	"	20 00	10 00	10 00
		Wharfage, Boat house	"	40 00	20 00	20 00
		J. Freedman, house rent	"	20 00	10 00	10 00
		J. Freedman, house rent	"	20 00	10 00	10 00
		Mr. Gallishaw, old wood	W. Boston	1 50	75	75
		Samuel Gould, old wood	W. Boston	3 50	1 75	1 75
		Yacht "Gleam," wharfage	Craigie	40 00	20 00	20 00
		Sprague & Nugent, ad. space	"	35 00	17 50	17 50
		J. Freedman, house rent	"	20 00	10 00	10 00
		J. A. Gorman, old wood	Harvard	1 00	50	50
Nov. 1	6-79	Met. Coal Co., repairing bridge	Boylston Street	46 70	23 35	23 35
Nov. 21	6-89	J. Freedman, house rent	Craigie	17 65	8 83	8 82
		Boston Ad. Co., ad. space	Craigie	40 00	20 00	20 00
		Boston Elevated Rwy. Co., rent cable house	River & Boylston Streets	100 00	50 00	50 00
		W. B. Hoitt, old wood	W. Boston	29 50	14 75	14 75
Nov. 29	6-91	Boston Athletic Ass'n, rent and wharfage	W. Boston	50 00	25 00	25 00
		Total		$760 85	$380 43	$380 42

REPORT OF THE SEALER OF WEIGHTS AND MEASURES

OFFICE OF THE SEALER OF WEIGHTS AND MEASURES,
BRATTLE SQUARE, CAMBRIDGE, December 1, 1904.

To the Honorable, the City Council: —

In compliance with the City Ordinance, I respectfully submit a report for the Department of Weights and Measures for the year ending November 30, 1904.

Appropriation			$2,400 00
	EXPENDITURES.		
Salaries of Sealers: —			
George H. Dinan		$1,000 00	
John C. Connors		750 00	
		$1,750 00	
Assistants: —			
Stephen H. Duffy	$40 80		
Daniel C. Sweeney	38 70		
Francis H. Nugent	1 80		
James E. O'Connell	1 20		
		82 50	
Care of Horse: —			
Street Department, for board	$216 00		
Street Department, for shoeing	11 40		
		227 40	
Repairs on Wagons and Harnesses: —			
T. H. Kneeland	$38 00		
Middlemas Bros.	8 75		
John J. Hawkes	75		
M. M. Hawkes	2 00		
		49 50	
Marking acid, Malden Specialty Co.		17 95	
Equipment: —			
Estate of H C. Dimond & Co.	$24 70		
The Fairbanks Co.	32 04		
Brock & Eaton	6 22		
Moore & Hadley	50		
		63 46	
Office Incidentals: —			
A. H. Edgerly	$3 50		
Boston Elevated Railway Co.	20 00		
J. Frank Facey	5 25		
Amounts carried forward	$28 75	$2,190 81	$2,400 00

Amounts brought forward . . .	$28 75	$2,190 81	$2,400 00
George H. Dinan	71		
City Messenger Department . .	6 23		
Cambridge Chronicle . . .	5 91		
J. A. Cummings Printing Co. . .	6 37		
Caustic-Claflin Co.	5 00		
Charles H. Thurston	75		
N. E Tel. & Tel. Co. . . .	29 60		
Charles W Sever & Co. . . .	24		
Savage & Son	15		
American Express Co. . . .	25		
		83 96	
Total expenditures . . .			2,274 77
Amount unexpended . .			$125 23

REVENUE.

Fees for Sealing	$709 66	
Fees for Adjusting	57 25	
Weighing fees at City Scales	63 06	
		$829 97
Total amount expended	$2,274 77	
Total of fees collected	829 97	
Net expense of Department		$1,444 80

TESTS MADE AT OFFICE FOR YEAR ENDING NOVEMBER 30, 1904.

S — Sealed. C — Condemned. A — Adjusted.

	Scales.			Weights.			Dry Measures.			Liquid Measures.			Yard Measures.		Baskets		Milk Measures.	
	S	A	C	S	A	C	S	A	C	S	A	C	S	C	S	C	S	C
Dec	4	....	....	3	2	....	....	....	....	1	....	....	....	....	....	....	10,799	212
Jan	3	1	....	15	14	....	7	....	....	1	....	....	....	....	2	....	16,700	262
Feb	10	1	....	15	7	....	9	....	....	7	....	....	....	....	....	....	4,220	31
Mar	53	5	3	21	6	....	91	2	...	165	28	25	....	....	....	....	10,620	46
Apr	32	10	1	34	7	....	145	3	3	41	6	2	....	....	....	....	7,026	144
May	18	3	1	44	7	....	101	....	....	90	....	....	....	....	....	....	5,111	91
June	20	4	1	17	8	....	154	....	3	3	....	....	....	....	....	....	3,025	59
July	9	2	....	....	....	....	60	....	....	8	1	....	....	....	....	....	3,890	43
Aug	4	....	....	....	....	....	36	....	....	....	....	....	....	....	....	....	7,313	240
Sept	6	2	1	4	....	....	23	....	....	2	....	....	....	....	....	....	16,434	496
Oct	4	1	....	3	....	....	29	....	....	25	....	....	....	....	4	....	5,231	148
Nov	....	....	....	....	....	....	12	....	....	3	....	....	....	....	4	2	6,676	264
	163	29	7	156	51	....	667	5	6	346	35	27	....	....	10	2	97,045	2,036

Total number of tests made at this office, 100,465.

TESTS MADE OUTSIDE OF OFFICE FOR THE YEAR ENDING NOVEMBER 30, 1904.

S — Sealed. C — Condemned. A — Adjusted.

	Scales.			Weights.			Dry Measures.			Liquid Measures.			Yard Measures.		Baskets	
	S	A	C	S	A	C	S	A	C	S	A	C	S	C	S	C
Dec.	2	....	....	13	.....	....	.....	....	....	....	....	....	.....	....	....	....
Jan.	.....	.....	....	.....	.....	....	.....	....	....	.....	....	....	.....	....	....	....
Feb.	4	2	....	9	7	....	.....	....	....	.....	....	....	.....	....	....	....
Mar.	1	.....	....	.....	.....	....	.....	....	....	.....	....	....	.....	....	....	....
Apr.	143	24	3	363	100	....	183	1	4	193	1	2	9	....	....	....
May.	207	31	2	583	164	....	222	1	5	190	....	2	24	....	....	....
June	261	31	3	832	168	....	315	2	8	399	1	11	11	....	....	....
July	160	33	....	724	261	....	10	....	1	.....	....	....	.....	....	....	....
Aug.	310	49	5	946	223	2	168	2	3	176	....	1	47	2	....	....
Sept.	168	30	3	536	97	....	166	....	3	213	1	9	11	1	....	....
Oct.	392	54	12	1,272	243	....	334	1	9	354	4	9	28	....	....	....
Nov.	351	42	13	1,100	145	....	373	....	8	503	....	4	21	....	....	....
	1,999	296	41	6,378	1,408	2	1,771	7	41	2,028	7	38	151	3	....	....

Total number of tests made outside of office, 12,452.

RECORD OF TESTS MADE FOR YEAR ENDING NOVEMBER 30, 1904.

	Sealed.	Adjusted.	Condemned.	Total Inspected.	Per Cent. Sealed.	Per Cent. Adjusted.	Per Cent. Condemned.	Number Correct.	Number Incorrect.	Per Cent. Correct.	Per Cent. Incorrect.
Scales	2,162	325	48	2,210	97.8	14.7	2.2	1,837	373	83.1	16.9
Weights	6,534	1,459	2	6,536	99.9	22.3	.1	5,075	1,461	77.6	22.4
Dry Measures	2,438	12	47	2,485	98.1	.4	1.9	2,426	59	97.6	2.4
Liquid Measures.	99,419	42	2,101	101,520	97.9	.....	2.1	99,377	2,143	97.9	2.1
Yard Measures	151	.....	3	154	98.0	.....	2.0	151	3	98.0	2.0
Baskets	10	.....	2	12	83.3	.....	16.7	10	2	83.3	16.7
	110,714	1,838	2,203	112,917	95.8	6.2	4.2	108,876	4,041	89.6	10.4

Total number of tests made, 112,917.

WEIGHTS AND MEASURES DEPARTMENT.

INVENTORY OF PROPERTY.

STANDARDS FURNISHED BY THE COMMONWEALTH.

1 Balance, 5 grains to 100 lbs.
1 Set (5) Avoirdupois weights, 50 lb., 25 lb., 20 lb., 10 lb., 5 lb.
1 Set (11) Avoirdupois weights, 4 lbs. to 1-16 oz.
1 Kilogramme in case.
1 Steel meter in case.
1 Brass yard measure.
1 Set (5) iron dry measures, 1-2 bushel to 1 quart.
1 Set (6) iron liquid measures, 1 gallon to 1 gill.

1	Roll top desk.	
1	Black walnut desk, used by Superintendent of Janitors.	
1	Black walnut desk.	
5	Chairs.	
1	Table.	
1	Clothes Press.	
1	Scale cabinet.	
1	Wooden cabinet.	
2	Benches.	
1	Sink.	
5	Mats.	
1	Set Revised Laws.	
1	Set card records, oak case.	
1	Set card index, oak case.	
1	Hektograph.	
1	Letter Press.	
1	Blotter bath.	
	Miscellaneous books .	$200 00
1	Bay horse	100 00
1	Express wagon	100 00
1	Light wagon	75 00
1	Pung	23 00
2	Harnesses	70 00
1	Plush robe	1 00
1	Stable blanket	2 00
1	Rain blanket	2 00
1	Woolen blanket	5 00
1	Halter	75
1	Hitch weight	50
1	Platform scale, 1-2 lb. to 2,500 lbs.	75 00
1	Folding platform scale, 1-4 lb. to 600 lbs.	30 00
1	Balance, 1-10 milegramme to 500 grammes	35 00
1	Balance, 1-50 grain to 1-2 lb.	15 00
1	Sealers' balance, 1 grain to 8 lbs.	50 00
2	Sealers' trip scales (not used)	5 00
1	Spring scale, 1 lb. to 125 lbs.	1 00
2	Sets (19) Avoirdupois weights, 4 lbs. to 1-8 oz.	10 00
1	Set (9) Troy weights, 16 oz. to 1-8 oz.	3 00
1	Set (13) Metric weights, 1 kilo to 1 gramme	5 00
5	Boxes miscellaneous weights (not standardized)	10 00
1	Set (3) iron weights, 25 lb., 10 lb., 5 lb.	5 00
40	50-lb. weights	100 00
3	Glass graduates	1 00
1	Set (21) grain weights, 1,000 gr. to 1-100 gr.	13 50
1	Set (21) Metric weights, 50 gram to 1-10 mg.	13 50
1	Set (5) copper dry measures, 1-2 bushel to 1 quart . . .	45 00
1	Set (3) brass dry measures, 1 quart to 1-2 pint	5 00
2	Sets (14) copper liquid measures, 1 gallon to 1 gill . . .	30 00
1	Iron truck	5 00
1	Steel tape	10 00
1	Set brands	3 00
1	Plumbers' furnace	5 00
	Miscellaneous tools	50 00
1	Wagon scale (Lechmere Square)	400 00
1	Wagon scale (Union Square)	350 00
		$1,854 25

As shown by the following table, the work of this department is constantly increasing: —

Number of tests made in 1902	98,262
" " " " " 1903	109,696
" " " " " 1904	112,917

This increase consists, to a great extent, of work performed in the office, for which no fee can be charged under the provisions of Sections 21 and 35, Chapter 62, Revised Laws.

The testing of milk jars and cans comprise the larger part of the office work, there being 99,081 of such measures tested this year. This is a very slow process. It is impossible to make all glass measure exact, and under the statute, a slight variation is allowed from the standard measure. Each jar is filled with water from the standard and its variance noted. If in excess, the jar must be condemned. There are about forty-five milk dealers who are compelled by law to have their sealing performed in this office. Most of their measures are glass jars, the frequent breaking of which necessitates their being replaced.

This work has been a heavy tax upon the resources of this department, owning to our lack of sufficient storage room and also owing to the fact that considerable time had to be devoted to this branch. On numerous occasions we have been compelled to suspend outside work to keep pace with the demands of the milk dealers for sealed measures. This is detrimental, in a large degree, to the volume of outside work and the receipts resulting therefrom. As the tendency of this work is to constantly increase, it naturally follows that the outside inspections and the revenue of this department will diminish unless additional help is provided.

In the outside inspections, the sealing fees remain practically the same. Section 34, Chapter 62, Revised Laws, provides that the Sealer shall have a reasonable compensation for all necessary repairs, alterations and adjustments made by him. As the scales, weights and measures have been found in good condition this year, the adjusting fees have decreased and the Sealer feels that he has done equal justice to all concerned by reducing these charges.

There have been very few complaints made during the year in relation to the violation of the laws regarding weights and measures. We have had four persons summoned into court; one for short measure and three for altering scales. Several have been warned in regard to minor violations, and in each case it has had a salutary effect.

The business of selling coal in bags of one hundred pounds each, has increased considerably, especially in the winter months. Section 89, Chapter 57, Revised Laws, gives the Sealer authority to re-weigh any coal and to prosecute any violations of said statute.

As there are very few consumers who have facilities for weighing this coal, the department is equipped with a scale which is carried on the wagon and inspections are made from the dealers' wagons on the street.

The pedlers and junk dealers have this year caused the department very little trouble and, with rare exceptions, have observed the laws regarding weights and measures.

The receipts from the City scales have decreased materially from last year, thereby reducing the revenue of this department. This is due

to the fact that considerable public weighing has been done by private firms at a less fee than is provided for by ordinance, from which no revenue is derived by the City.

Under the proposed new ordinance, public weighers will be under control of this department and all weighing fees collected by them being paid to the City ; they in return will receive a salary equal to three-fifths of the fees so collected.

By reason of this, a uniform rate for public weighing will prevail and the scales erected and maintained by the City will, no doubt, return a larger revenue.

Respectfully submitted,

GEORGE H. DINAN,
Sealer of Weights and Measures.

REPORT OF THE TRUSTEES OF THE SANDERS TEMPERANCE FUND

The thirty-ninth annual report concerning this Fund is herewith submitted by the Board of Trustees.

This Board was originally constituted under an Ordinance approved by Hon. Z. L. Raymond, Mayor, December 7, 1864.

Prior to the date named, the following preliminary proceedings and action were had in the City Council, viz. : —

September 22, 1864, a communication bearing this date was received by the Mayor, transmitting the information "that among the legacies bequeathed by the will of Charles Sanders, Esq., of Cambridge, is one to the City of Cambridge as set forth in the following clause of the will: —

Item. — 'Believing as I do that drunkenness is a crime, and likewise the origin of a large portion of the crimes, vices and misery which exist among us, I am desirous to do all in my power for its prevention and cure by establishing in Gloucester the place of my ancestors, and in Cambridge my present place of residence, a permanent salary to be paid to some worthy man in each place who by discretion and zeal for the cause, to be constantly employed as a missionary in the cause of temperance, in reforming old drunkards and preventing young drunkards, and abolishing as far as possible the use of intoxicating liquors.

I therefore give and bequeath to the Town of Gloucester the sum of Ten Thousand Dollars ($10,000.00), and to the City of Cambridge the sum of Ten Thousand Dollars ($10,000.00), to be held as permanent funds, the interest of which shall be paid quarterly as salaries to those persons employed for the above named purposes in these places, as long as the vice of drunkenness there exists.'"

The communication was referred to a Joint Special Committee which recommended the acceptance of the Fund, — that it be placed in charge of a Board of Trustees and that an ordinance be prepared in relation to the trust.

These recommendations were subsequently carried out and from that time the City has employed a Missionary to whom has been paid the sum of $600.00 per year, for his services, — the sum stated being the annual interest on the Fund at the rate of six per cent.

The question having arisen as to the extent of the duties required of the Missionary under a strict interpretation of the bequest, an opinion

upon the matter was furnished by City Solicitor Hammond, under date of May 6, 1876, in which he says that what is required "is a Missionary work, and so-called in the will.

Whether a man can properly perform the work thus demanded of him in this City at the present time without making it his chief or only work, is a matter of which you can judge as well as I.

If he can, and still have spare time, there is nothing in the bequest so far as I can see, which would forbid him from devoting the spare time to earning an honest dollar over and above his salary as Missionary under the will."

The present Missionary under the provisions of the bequest is Mr. James Hicks, long known in this City as an active, intelligent and conscientious worker in the cause of temperance.

He has performed numerous acts of charity and kindness in behalf of those suffering from the drink habit, and has successfully endeavored to lift the heavy burden of sorrow from many oppressed hearts. His presence has been a valuable factor in temperance gatherings, where he has labored with tireless zeal for the cause he holds so dear.

His own report of what he has sought to accomplish during the past year is transmitted with this report.

Very respectfully,

AUGUSTINE J. DALY,
JOHN W. COVENEY,
HARRY N. STEARNS,
Trustees of the Sanders Temperance Fund.

To the Trustees of the Sanders Temperance Fund: —

Gentlemen: — In compliance with your requirments and past custom, I hereby present my report for the year ending December 31, 1904.

My labors throughout the year have been carried on much the same as that of former years.

It has been my constant aim and desire to carry out the wishes of the philanthropic donor, to advance the cause of temperance in our beloved City, by especially caring for the reform of the individuals led captive by the power of strong drink, visiting and advising with them, and in many ways endeavoring to bring hope and sunshine into the dark home, and suffering families. Though, to many, this work would be of a most discouraging character, to me, it has been of a most fruitful nature. I have had very many genuine reforms during the year. Some of the

cases, when I took them in hand, seemed almost hopeless, yet, under God, and with His divine blessing, my feeble efforts have been abundantly blessed.

DISTRICT COURT.

My daily attendance at the session of our court furnishes great a opportunity to do good among the unfortunate class who come there day after day. Before the court opens, I talk and advise with many of them, and where an earnest desire is expressed for reform from the use of liquors, I make my appeal to the court, on behalf of the unfortunate one. I am thankful to say, that this appeal is always very courteously listened to, and where there is the least hope my request is granted. Cases of this kind are continued by the court from month to month, until I am able to report the case most hopeful. The number of cases helped by this kindly action of the court are many.

Under the direction of the court, it is my duty to see that the persons whose cases are given to me abstain entirely from the use of liquor, get steady employment, provide for their families, report to me, as often as I require, and come into court on the morning their continuance ends. These rules I have given to me in each case, and I see to it that they are strictly lived up to. Good results follow.

PUBLIC TEMPERANCE MEETINGS.

There are four meetings held every week in the City where the pledge of total abstinence is always offered to those who attend. These meetings are always well attended. Officered and carried on by reformed men who have had the sad experience of a drinking life themselves, and are able by their experience and testimony on both sides of life, to keep up the live interest in reform which exists in our midst. These meetings are aided and encouraged by many of our best citizens, who by their words of encouragement add much to the success of the work. During the year over one thousand persons, young and old, have taken the total abstinence pledge. It has been my privilege to attend and assist at 216 of these gatherings. Through the kindness of the trustees of the Young Women's Christian Association, a monthly temperance meeting has been carried on in the rooms of the Margaret Fuller House on Cherry Street, where much interest has been manifest in a neighborhood where temperance work is much needed. These meetings will continue during the coming year.

OFFICE HOURS, EVENINGS.

I have had over three hundred and fifty evening calls at my office during the year, most of which were necessitated because of drink. Mothers, young wives, and sometimes husbands and fathers seek my advice as to the best course for each to pursue. These calls for help have always been responded to in a visit next day to the house, where I have given counsel and advice, which in many cases have been productive of happy results.

These visitations have added to my work and calls from the court have numbered one thousand three hundred and ninety. I must say I have always been well received in these troubled homes, and never left without a promise for a better future.

For many of the men I have been able to procure employment. The superintendents of the large factories have aided and encouraged me very much by placing men in positions where they could earn a livelihood for their families. There are many other ways that I have been enabled to help unfortunate ones, of which I cannot give any description in a report like this. I trust that the Giver of all Good will bless the helper of the helpless.

HOUSE OF CORRECTION AND OTHER INSTITUTIONS.

I have made many calls on prisoners during the year, collected many thousand pages of literature which is distributed to the men Sunday morning as they leave the Chapel. I have attended the Sunday morning religious service in the Chapel and aided the Chaplain in whatever way my service might be needed. I have made many visits to the Cambridge Hospital and other institutions in the City and distributed reading matter to the inmates. I have received, and responded to many calls from our churches to speak on the subject of temperance before the young people's societies. This interest on the part of the young people has been most encouraging to me.

CAST OFF CLOTHING.

For many years past I have collected garments from the charitable, and have disposed of them to the poor which has been a boon to many. Last year I was enabled to assist over one hundred families in this way, who needed the charity very much. I am deeply grateful to those kind hearted people who responded to the call made through our local papers, the editors of which so kindly helped me in this way every year, and for which I return them my sincere thanks.

NO LICENSE.

Once again our people have risen in their strength and put themselves on record against the dram shop in our City. Our churches, schools, and homes, all rejoice. The temperance workers take courage and go on with their good work of reforming the drunkards, knowing that in Cambridge the tempting saloon will not draw them aside from their purpose to keep a pledge of total abstinence. I trust the day will never come when our people will become indifferent to their duties and privileges in this beautiful City which has become historic on this as on many other great questions of reform and good living.

In concluding my report, I must express my thanks to the many, rich and poor, clergy and laity, of our City who have wished me the kindly God-speed in my work.

I have been helped and encouraged by the Temples of Honor, the different reform clubs, the temperance organizations of our churches, and the W. C. T. Union.

With much respect,

JAMES HICKS,
Missionary Sanders Temperance Fund.

REPORT OF THE BRIDGE CHARITABLE FUND

To the Honorable, the City Council: —

The Trustees of the Bridge Charitable Fund submit herewith the twenty-eighth annual report relative to this foundation.

The amount on deposit in the Cambridgeport Savings Bank to the credit of the Fund July 18, 1903, was	$4,360 66
Interest added since annually to July 18, 1904	153 93
Amount on deposit at the last named date	$4,514 59

The purpose for which this Fund was established was briefly stated in the report of the Trustees for the year 1902, and in many of the former reports of preceding years its history has been given in detail.

Particular mention was made in the report of that year of the fact that the sum of $2,011.06 was due at the close of the year 1902, from the amount then standing to the credit of the Fund, to the Overseers of the Poor, to be used by them for the "deserving poor of the City." It was further stated that to this amount there should be added the interest accumulation for the previous year, namely the sum of $99.00, it being two-thirds of the yearly interest. The indebtedness to the Overseers of the Poor was thus increased to the sum of $2,110.16. Under the terms of the bequest this latter sum should be withdrawn from the Fund and held to the order of the Overseers of the Poor. In furtherance of this requirement the Trustees of the Fund for the year 1902, voted to authorize the Mayor to withdraw the surplus interest from the amount on deposit at the Cambridgeport Savings Bank to the credit of the Fund and place the same where it belongs.

No further action has been taken in the matter and the amount of the surplus interest has since increased to the sum of $2,222.78.

Deducting this sum the actual condition of the Fund will be as follows: —

Amount on deposit	$4,514 59
Amount due Overseers of the Poor	2,222 78
Balance of amount belonging to the Fund	$2,291 81

The Trustees are nominally the custodians of the Fund, but they are charged with no duties other than to see that the conditions of the bequest are duly fulfilled. The amount of good that can be done with a

small amount of money may be slight, but may be far reaching in its results. In the not distant future, the interest accretions may be of great service in aiding the deserving "poor whom we have always with us."

In concluding this report the Trustees would call attention to the earnest wish of the donor, so often recited in former reports, that his gift "may prove an incentive to the liberal and philanthropic, to enlarge the Fund by their contributions, and that the same may be wisely managed, so that it shall in time to come afford relief to many worthy but unfortunate persons in the City of which the donor has so long lived."

AUGUSTINE J. DALY,
JOHN W. COVENEY,
HARRY N. STEARNS,
Trustees of the Bridge Charitable Fund.

REPORT OF THE SUPERINTENDENT OF PUBLIC BUILDINGS

To the Honorable, the City Council of the City of Cambridge:—

Gentlemen:— In accordance with Section 2, Chapter 13, of the City Ordinances, it becomes my duty to submit to your honorable body the following report of the Building Department of this City for the year 1904, including a detailed report of the Inspector of Buildings.

Extensive repairs and permanent improvements have been made on the various schoolhouses and City buildings, as may be seen from the detailed report herewith submitted. Special mention should be made of the work done on the Wellington, Agassiz, Parker and Willard Schools and the City Hall and Brattle Square Building.

The suggestions of the School Committee and the Superintendent of Schools in regard to repairs proved of great value to me, and aided me materially in my efforts.

AGASSIZ SCHOOL.

Complaints of the ventilation of this school having been made, I made a thorough examination which revealed that the arrangement used to ventilate the building was of no value whatever. I found that in order to remedy this state of affairs, I would be obliged to do a great deal of work. An attempt had been made at considerable expense to remedy these poor conditions but it had not proved effective. To properly do the work it was necessary to install a small heating plant, build new metal ducts from the basement to the roof ventilators, and place steam coils in the brick ducts of the chimneys to properly vent the lavatories. This involved considerable mason and carpenter work.

This new system has been in successful operation since the beginning of the school term, and there is no reason to doubt but that it will continue to give satisfactory results.

The plumbing has been remodelled, the walls of the school rooms in the entire building tinted, picture mouldings placed on the walls, the masonry pointed and repaired, and a new brick walk laid.

WELLINGTON SCHOOL.

The poor condition of this building was apparent to every person visiting the school, and noticing this I made a thorough examination which showed that a portion of the building, namely the new addition,

was unsafe. I deemed it best to take all possible means to remedy this condition. Work on the building was begun at the close of the school term and pushed with all speed to completion before the opening of school in September.

The building is now in a safe condition and the renovation given it makes it more desirable both for teachers and pupils than it has been for several years.

This school should receive still further attention during the coming year. It is desirable that it should present the best possible appearance as being the training school for teachers of this City it comes under the observation of a large number of visitors.

WILLARD SCHOOL.

The sanitary arrangements in this building not being satisfactory, I caused them to be removed and remodelled. This was done at considerable expense and is now in a satisfactory condition.

The entire interior of the building has been renovated, walls and ceilings tinted, and new picture mouldings put up. The outside of the building has been painted and new floors laid in the kindergarten and first floor corridor.

PARKER SCHOOL.

The heating and ventilating plant in this building was inadequate, it having been necessary to dismiss school on very cold days during the past winter. A new hot water boiler has been placed in the basement and additional heating and ventilating coils installed. Old and primitive material was removed and replaced by up-to-date apparatus which has been in successful operation since installed.

I would add that the steam boiler in the Shepard School having been condemned by the State Inspector of Boilers, I was obliged to install a new boiler This also involved changes in steam piping, an expense which I did not anticipate.

I wish to state that the short time, namely two and a half months, which I have to do the work needed on the school buildings, renders it necessary to leave some work to be done another season.

KELLEY SCHOOL.

This building is situated in a location in which the soil retains a large amount of surface water. For this reason the boiler pit being three feet lower than the sewer, it was found necessary to waterproof this part of the basement. A contract was executed to do this important work and its faithful execution is fully guaranteed by surety bonds.

This work proved defective and I was obliged to adopt means to keep the water out of the basement. This has been accomplished by building a drain around the entire building and installing a cellar drainer in the boiler pit. By this method I have succeeded in keeping the basement perfectly dry.

This case is now in the hands of the City Solicitor for settlement with the surety company. It is expected that the City will be fully reimbursed by the surety company for this work.

HOUGHTON SCHOOL.

Acting under an order of the City Council approved February 16, 1904, a contract was executed with George F. Fogerty, architect of the Peabody School, to furnish duplicates of his plans of this school for the sum of $500, for use in the erection of a schoolhouse on the Mill Pond Lands. On February 23rd an appropriation of $80,000 for the construction of the building was made. On August 8th bids for the construction of the school were received from six contractors, the highest being $88,693, and the lowest, that of John B. Byrne, $77,377. The lowest bid received for heating and ventilating was that of Messrs. Lynch & Woodward, $8,216, and for plumbing, that of Higgins & Co., $3,597.

As these bids exceeded the appropriation the matter was referred to the City Council and an additional appropriation of $15,000 was asked for.

At this time serious objections were made to the proposed site on Bancroft and Gilmore Streets on land owned by the City, and which had been previously reserved for school purposes by the City Council. These objections were sustained and the location changed by order of the City Council approved September 27th, to purchase for the sum of $7,700 the lot at corner Putnam Avenue and Magee Street, and an additional appropriation of $20,000 was authorized September 27th. This has delayed the construction of the building several months. On October 22, 1904, a contract for the construction of the building was executed with John B. Byrne for $67,067 and approved by the Mayor. Work was begun immediately. No contract for heating and ventilating has been made, the lowest bidders Lynch & Woodward having withdrawn their bid. The plumbing contract is under consideration at this time.

Acting under an order of the City Council approved November 1, 1904, the lot of land on the northeasterly side of Magee Street, adjoining the land already purchased for the erection of this schoolhouse, was taken for the enlargement of the schoolhouse lot.

FLETCHER SCHOOL.

This schoolhouse was opened for school purposes at the beginning of the fall term and its use has given entire satisfaction.

There has been installed in this schoolhouse a system of electric clocks having a program arrangement of the various signals used, the signals being given simultaneously throughout the building. By this means the teachers and pupils are greatly benefited in their work.

ADDITION TO RINDGE M. T. S. FORGE SHOP.

My attention was called last spring to the fact that an enlargement of the forge shop at this school was necessary. Arrangements were made with Geo. T. Tilden, the architect of the school, for plans for a circular addition, incorporating permanent coal bunkers in place of the temporary sheds at that time in use. The contract for the construction of this addition was awarded to John B. Byrne, mason. The work was accepted on October 20th, and as completed is pronounced one of the finest forge shops in the State. Twenty-one forges have been installed, connected with underground ducts which carry off the smoke and furnish a draught for the fires. It is lighted by three large skylights.

It had been a source of annoyance that the boiler room and the forge shop were not separated in any way. A partition wall has been built, and an extra entrance to the boiler room built from the outside, thus shutting off the heat from the boilers.

The addition greatly improved the appearance of the building from the Felton Street side.

ABANDONED SCHOOLHOUSES.

The Dunster, Sargent and Stearns Schools have been abandoned for school purposes. In July the Dunster School was sold at auction for the sum of $6,500; of this sum $400 was appropriated to buy forges for the new addition to the R. M. T. School, and $6,000 for permanent repairs on schoolhouses.

The Dana School building was sold and removed from the lot.

BRATTLE SQUARE BUILDING.

The Board of Health having ordered the City to take measures to prevent the offensive odors from arising from the manure which was stored in the basement under the stables in this building, two brick

manure pits were built, and brick vent ducts carried from them above the roof. The value of this work is now apparent to those who occupy the building.

The rear walls of this building had settled to such an extent as to demand immediate attention. The building was shored up at great expense and the piling which had decayed was cut away and a new foundation built. This work was both expensive and dangerous, but was successfully completed, and all doubts as to the safety of the building are now removed.

THIRD DISTRICT COURT ROOM.

Better facilities were requested for the clerk of the court and the presiding judge, as the means for filing documents were insufficient and the offices inadequate for conducting the business of the court.

Plans were made for increasing the facilities and approved by Judge Almy. These include the complete renovating of the room occupied by the court officers, and provide two new offices adjacent to the court room, also enlarge the present clerk's office. They also change the ward room into a supplementary court room. The work is completed and will I trust prove satisfactory to those using the court.

The rental to be received by the City when these improvements are made will be $1,500 per year, which is over three times that now received. This increased income will pay for all the improvements made in less than two years.

CITY HALL.

On City Hall many necessary repairs have been made, masonry pointed, stone steps and curb around building reset, boilers reset, and outside woodwork, doors, grille work and clock painted. A new ladies' lavatory which has been needed for a long time has been built on the third floor. The interior should receive attention during the coming year.

NEW ENGINE HOUSE, WARD TEN.

The contract for the construction of this building was signed April 20, 1904, Walsh Bros., 10 Province Court, Boston, being the builders and Chas. R. Greco of Cambridge, architect. The building is now completed.

This engine house is the most substantially constructed in the City. The first floor is absolutely fireproof in construction. The flooring is asphalt, checkered to prevent the horses from slipping. The building will accommodate two companies, entirely separated from each other. The sanitary arrangements are of the best. A new system of drying hose has been adopted which obviates the construction of an expensive hose tower. Shower baths have been provided for the men.

RIFLE RANGE.

The six hundred yard range at the Rifle Range at Lexington having been condemned as unsafe, arrangements have been made with the Bay State Military Rifle Association for the use of their range at Wakefield. The two hundred yard range at Lexington is still available until the present lease expires in November, 1905.

I would call your attention to this fact, as permanent arrangements for rifle practice will have to be made for the coming year.

STORAGE VAULTS.

I desire to call the attention of your Honorable Body to the great need of fire proof vaults in City Hall for the safe keeping of records of the several departments.

My attention has been called to this matter by the City Clerk and Auditor. The capacity of the vaults at present used by these departments is exhausted, and in the case of the Auditor a large portion of his records are now stored in the basement in a temporary room not suited for this purpose, and in case of fire would be destroyed. The Building Department has no proper place for the safe keeping of plans which are filed with applications for permits for new buildings. The room now used is in the attic of City Hall, a very unsafe place.

I would respectfully recommend that an appropriation be made in order that this work may be done as soon as possible. I would suggest that the room in the basement now used for storage by the School Department be used for this purpose, and a suitable place provided for them elsewhere.

ELECTRIC PLANT, CITY HALL.

I would also call your attention to the fact that the yearly cost ($1,250) of lighting the City Hall would in two or three years time pay for the installation of a modern electric plant which would at the same time operate the elevator in City Hall. The present elevator apparatus requires constant repairs and will before many years have to be replaced. It would therefore seem to be an opportune time to do this work thereby saving a considerable sum to the City.

I therefore suggest to your Honorable Body that some action be taken in reference to this matter.

INSPECTION OF BUILDINGS.

In addition to the regular inspection work of this department, in accordance with an order of the City Council dated January 19, 1904, an inspection was made of all buildings in which assemblies are held, with a

view to determining whether or not they were provided with proper fire escapes or other safe means of egress. Copies of the Inspectors' reports on these buildings are on file in this office.

Elevators throughout the City have been inspected in January and July, and the annual inspection of the means of egress of tenement houses, lodging houses, hotels, etc., was made in May and a report made to the Chief of the District Police.

Permits issued to operators of elevators	296
Inspections	3,300
Inspections of buildings to be moved	12
Plans rejected	3
Dangerous chimneys	11
Foundations condemned	3
Foundations ordered relaid	2
Permits cancelled	3
Building without a permit	25
Building too near adjoining lot	4
Defective conductors and gutters	4
Building in a dangerous condition	5
Notices served on violators of building ordinances	92

BOARD OF EXAMINERS OF PLUMBERS.

As chairman of the Board of Examiners of Plumbers I submit the following report: —

Number of candidates examined for master plumbers license	4
Number of candidates examined for journeymen plumbers license	11
Number of master plumbers licenses granted	4
Number of journeymen plumbers licenses granted	8

INSPECTION OF PLUMBING.

Number of applications received and permits granted	457
Number of tests and inspections	1,268
Number of jobs found defective or otherwise not in accordance with the plumbing ordinance	5
Number prosecuted for violation of the plumbing ordinance	0
Number of master plumbers holding certificates	36
Number of journeymen plumbers holding certificates	61
Number of master plumbers holding licenses	37
Number of journeymen plumbers holding licenses	52
Amount received for license fees	$32.50

In conclusion I desire to tender my sincere thanks to His Honor the Mayor and the Committee on Public Property for advice and support.

Respectfully submitted,

THOS. F. TRACY,
Superintendent of Public Buildings.

REAL ESTATE AND OTHER PROPERTY BELONGING TO THE CITY.

SCHOOLHOUSES.

	Feet of Land.	Purchase of Land.	Erection of Building.	Valuation of Land.	Valuation of Building.	Valuation of Furniture.
Agassiz	19,689	1874	1875	$8,000	$20,000	$1,215
Boardman	10,018	1866	1868	4,000	13,000	1,290
Bridge	4,646	1836	1836	1,400	500	.....
Corlett	10,000	1880	1880 Purchased.	1,200	3,000	195
Cushing	14,787	1880	1880 Purchased.	1,500	3,000	136
Dana	14,317	1847	1848	4,300	.....	.....
Ellis	25,700	1897	1898	6,000	48,000	2,993
Felton	15,090	1847	1848	4,500	6,000	200
Fletcher	18,360	1902	1903	12,000	44,000	.....
Gannett	15,434	1876	1886	3,000	12,000	430
Gannett (old)	.....	1864	1865	2,600	2,000	395
Wellington	27,673	1875	1884	5,700	50,000	2,240
Gore	9,900	1871	1871	4,000	50,000	825
Harvard	20,494	1870	1871–1899	12,000	65,000	3,769
High	74,366	....	1891	40,900	220,000	9,220
Holmes	11,182	1870	1870	5,000	5,500	275
Houghton	20,210	1904	1904–1905	9,060	.....	.....
Kelley	25,230	1900	1902	9,600	60,900	4,380
Lassell	10,000	1880	1880	3,000	8,000	272
Latin	79,579	1894	1897	43,800	225,000	27,150
Lowell	12,033	1883	1883	3,600	5 500	402
Merrill	37,828	1864	1864	19,000	45,000	1,425
Morse	25,650	1889	1890	7,000	73,000	2,040
Otis	8,270	1857	1859	4,000	20,000	930
Parker	12,319	....	1893	7,000	15,000	710
Peabody	21,813	1887	1888–1898	9,800	68,000	3,340
Putnam	14,400	1896	1889	9,800	64,500	2,550
Reed	12,000	1868	1868	1,200	4,000	310
Rindge M. T.	81,128	....	1887	44,000	62,000	9,000
Riverside	11,198	1868	1868	3,000	5,000	330
Roberts	16,400	1898	1898	12,000	48,000	3,003
Russell	33,073	1895	1896	6,000	40,000	2,440
Sargent	9,995	1838	1838	5,000	3,000	255
Shepard	14,755	1855	1856–1873	11,000	26,000	1,047
Sleeper	21,284	1894	1894	5,000	24,000	1,190
Stearns	10,050	1812	1841–1843	5,000	3,000	322
Tarbell	19,500	1878	1882	4,900	7,000	355
Taylor	23,592	1894	1895	6,000	36,000	1,720
Thorndike	10,027	1860	1860–1875	4,000	30,000	1,676
Washington	16,000	1900	1901	12,800	80,000	3,550
Webster	25,839	1866	1873–1885	9,000	50,000	3,350
Willard.	20,079	1869	1870	7,000	25,000	1,350
Wyman	14,347	1871	1871–1886	4,500	5,000	555
				$382,160	$1,574,900	$101,535

CITY BUILDINGS.

	Feet of Land.	Purchase of Land.	Erection of Building.	Valuation of Land.	Valuation of Building.	Valuation of Furniture.
City Hall	47,878	1888	1888	$72,000	$200,800	$29,800
Brattle Sq. Bldg.	16,153	1873	1874	16,000	62,000	2,500
Central Sq. Bldg.	13,028	1872	1873	10,500	50,000	2,436
Station 3	4,220	1862	1870	2,100	20,000	800
Station 4	6,316	1872	1873	3,700	5,300	300
				$104,300	$338,100	$35,836

Voting booth, corner Cambridge and Hampshire Sts.	$500 00	
Portable voting booth, junction Sherman and Garden Sts.	200 00	
Voting compartments and fixtures (380) . . .	1,900 00	
		$2,600 00

OLD MATERIAL IN STORE HOUSE.

Plumbers' materials	$100 00	
Old doors	10 00	
Davidson steam pump (at R. M. T. S.) . . .	100 00	
		$210 00

RIFLE RANGE.

Buildings and equipment	$1,000 00

SCHOOLS — 1903–1904 — CARE AND REPAIR.

Names.	Fuel.			Repairs.			Supplies.				Extra Labor.		Janitors.	Grand Total.
	Coal.	Char coal.	Wood.	On Building.	On Furniture.	On Heating App's.	Furniture.	Gas.	Electric.	Sundries.	Help.	Sundry.		
Agassiz	$31 25	$6 25	$4 50	$607 54	$23 94	$2 40	.....	$7 20	.....	.....	.....	$1 00	$624 00	$1,308 08
Boardman	202 50	.....	4 50	537 47	.....	198 60	$24 00	11 10	.....	$3 26	.....	50	624 00	1,605 93
Corlett	.....	.....	4 75	147 03	2 00	9 62	.....	.....	.....	.....	.....	.....	260 00	423 40
Cushing	.....	.....	4 75	161 09	.....	9 41	.....	.....	.....	.....	.....	.....	260 00	435 25
Dana	.....	.....	.....	1 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	1 00
Dunster	31 25	.....	.....	383 92	.....	.....	.....	.....	.....	.....	.....	14 22	256 00	685 39
Ellis	396 50	6 25	4 25	93 09	21 00	.....	67 20	6 10	.....	9 27	.....	.....	919 86	1,523 52
Felton	.....	7 75	.....	261 50	.....	8 00	.....	16 10	.....	.....	.....	.....	455 00	748 35
Fletcher	58 50	.....	1 75	30 04	.....	.....	138 95	26 51	.....	75 68	.....	684 18	608 79	1,624 40
Gannett (new)	371 50	1 50	.....	39 88	2 65	64 40	.....	3 70	.....	50	.....	3 50	563 92	1,051 55
Gannett (old)	38 00	.....	.....	16 73	36 60	8 00	.....	1 20	.....	.....	.....	.....	.....	100 53
Gore	695 50	.....	.....	439 77	205 15	60 22	.....	23 50	.....	1 70	.....	.....	780 00	2,205 84
Harvard	1,027 50	6 25	1 75	185 73	.....	55 90	.....	4 50	$6 03	5 95	.....	.....	1,196 00	2,489 61
High	2,439 72	.....	16 00	985 53	24 20	164 10	118 19	52 40	462 13	37 99	$1,113 25	2 70	2,060 75	7,476 96
Holmes	.....	7 75	.....	190 64	.....	172 00	.....	1 70	.....	.....	.....	.....	366 61	738 70
Kelley	2,437 44	.....	17 50	266 24	.....	77 94	381 06	1 90	32 19	53 87	.....	433 44	1,310 43	5,012 01
Lassell	71 75	7 75	4 50	348 71	198 50	72 55	21 35	.....	.....	3 08	.....	50 00	416 00	1,194 19
Latin	3,079 72	8 75	.....	941 03	79 51	166 05	62 50	20 50	297 77	37 66	1,778 46	.....	1,924 21	8,396 16
Lowell	.....	14 30	.....	439 78	.....	29 26	.....	7 60	.....	75	.....	.....	366 60	858 29
Merrill	499 00	.....	.....	206 74	112 05	61 53	.....	3 50	.....	3 41	.....	.....	790 43	1,676 66
Morse	1,840 40	10 00	5 50	1,107 55	24 32	73 38	12 00	39 40	.....	26 07	.....	.....	1,165 00	4,303 62
Otis	217 00	17 00	.....	464 08	133 77	90 80	.....	33 40	.....	2 00	.....	.....	641 41	1,599 46
Parker	52 50	6 25	15 75	36 02	23 52	137 82	13 50	12 20	.....	1 25	.....	7 00	520 00	825 81
Peabody	673 50	6 25	.....	169 18	33 15	.....	160 50	1 30	14 94	39 63	.....	40 51	1,144 00	2,282 96
Putnam	168 75	6 25	.....	1,131 03	94 29	250 23	.....	42 60	284 01	20 24	.....	.....	1,277 25	3,274 65
Reed	.....	3 75	.....	364 14	16 80	6 10	.....	.....	.....	.....	.....	.....	416 00	806 79
Rindge, M. T.	1,733 76	.....	.....	108 15	122 00	161 61	67 82	28 30	502 10	110 78	1,222 32	50 80	1,425 00	5,532 64
Riverside	94 50	5 00	4 75	295 81	11 75	6 95	.....	.....	.....	2 20	.....	6 50	390 00	817 46
Roberts	1,387 25	6 25	1 75	536 89	16 05	153 73	.....	172 80	2 00	22 20	.....	.....	987 93	3,286 85
Russell	298 50	.....	7 00	229 38	2 90	55 46	.....	20 40	.....	44 17	.....	.....	919 86	1,577 67
Sargent	65 00	.....	.....	30 18	6 75	.....	11 50	22 80	.....	50	.....	.....	384 00	520 73
Shepard	191 50	.....	.....	620 72	51 33	30 14	.....	15 90	5 22	1 85	.....	7 00	842 00	1,765 66
Sleeper	67 50	10 50	6 75	501 09	.....	13 00	5 50	1 70	.....	.....	.....	2 95	624 00	1,232 99
Stearns	62 50	.....	.....	3 08	3 25	1 20	.....	11 40	.....	50	.....	.....	225 00	306 93
Tarbell	.....	6 50	4 75	365 31	7 50	12 00	.....	.....	.....	75	.....	.....	390 00	786 81
Taylor	599 40	.....	10 50	744 86	13 70	65 00	11 00	16 40	.....	4 15	.....	.....	799 61	2,264 62
Thorndike	.....	20 00	4 50	789 30	5 66	109 73	145 30	34 10	.....	85	.....	85 14	728 00	1,922 58
Washington	.....	.....	.....	38 91	27 58	292 66	.....	13 40	.....	29 77	.....	22 31	1,092 00	1,516 63
Webster	708 00	19 50	4 50	640 09	317 81	284 26	19 50	24 90	56 15	13 45	.....	.....	1,206 00	3,294 16
Wellington	963 75	20 50	6 45	1,634 53	194 93	405 65	95 00	15 60	.....	14 76	.....	38 89	1,097 21	4,487 27
Willard	.....	3 75	.....	1,608 16	230 70	29 15	.....	33 30	.....	1 90	.....	35 76	785 21	2,727 93
Wyman	62 50	3 75	.....	125 06	14 74	21 75	.....	.....	.....	1 50	.....	.....	520 00	749 30
All Schools	.....	.....	.....	.....	.....	.....	39 45	6 40	58 40	1,006 93	.....	517 19	1,263 00	2,891 37
	$20,566 44	$211 80	$136 45	$17,826 98	$2,058 10	$3,360 60	$1,394 32	$733 81	$1,720 94	$1,578 57	$4,114 03	$2,003 50	$32,625 08	$88,330 71

PERMANENT REPAIRS ON SCHOOLHOUSES.

Names.	Repairs		Totals.
	On Building.	On Heating Apparatus.	
Agassiz	$701 56	$748 30	$1,449 86
Boardman	102 00	.....	102 00
Corlett	51 00	.....	51 00
Cushing	49 46	.....	49 46
Felton	99 75	.....	99 75
Harvard	124 62	.....	124 62
Holmes	.....	172 50	172 50
Latin	.....	15 56	15 56
Lowell	130 00	.....	130 00
Merrill	106 88	.....	106 88
Morse	10 65	81 68	93 33
Otis	116 12	.....	116 12
Parker	140 84	519 18	660 02
Rindge Manual Training	93 90	.....	92 90
Roberts	516 21	.....	516 21
Shepard	.....	721 10	721 10
Sleeper	220 00	.....	220 00
Webster	24 38	.....	24 38
Wellington	1,247 59	.....	1,247 59
Willard	.....	5 87	5 87
	$3,734 96	$2,264 19	$5,999 15

CITY BUILDINGS, 1904.

NAMES.	FUEL.			REPAIRS.			SUPPLIES.				EXTRA LABOR.		Janitors.	Total.
	Coal.	Charcoal.	Wood.	On Building.	On Furniture.	On Heating App'ts.	Furniture.	Gas.	Electric.	Sundries.	Help.	Sundry.		
Brattle Square Building..	$1,272 62	$11 25	$3 50	$2,997 30	$22 67	$329 51	$117 17	$415 20	$141 50	$137 69	$463 13	$51 50	$822 00	$6,785 04
Central Square Building..	813 94	.....	7 00	591 10	9 51	4 00	.....	38 80	80 00	15 40	314 00	.....	958 00	2,831 75
City Hall.....	1,633 88	5 00	.....	2,947 85	401 88	722 17	195 29	54 10	1,237 80	420 20	4,503 54	137 28	939 00	13,197 99
Miscellaneous Buildings..	564 85	.....	6 25	100 37	.....	184 25	.....	71 90	.....	4 90	.....	31 06	872 00	1,835 58
	$4,285 29	$16 25	$16 75	$6,636 62	$434 06	$1,239 93	$312 46	$580 00	$1,459 30	$578 19	$5,280 67	$219 84	$3,591 00	$24,650 36

Number of permits granted for each month for the years 1903 and 1904: —

	1903.	1904.
December	26	22
January	21	13
February	22	15
March	36	45
April	77	40
May	61	56
June	45	59
July	47	51
August	50	49
September	39	31
October	59	45
November	36	47
Totals	519	473

	WARDS.											
	1	2	3	4	5	6	7	8	9	10	11	Total.
Additions	6	4	7	20	8	9	12	10	16	7	16	115
Alterations and repairs	22	1	10	13	3	12	5	5	16	9	7	103
Apartments and dwellings	....	1	1	1	4	4	5	3	22	21	13	75
Carriage houses	1	....	....	....	....	3	1	1	....	2	3	11
Chimneys and stacks	1	....	1	1	1	1	....	1	2	2	....	10
Dynamos, motors and engines	4	....	2	6	....	5	....	....	3	....	1	21
Factories	....	....	1	4	....	2	....	....	....	....	....	7
Foundations	....	3	2	5	....	1	6	4	....	1	2	24
Heating apparatus	....	....	....	2	2	1	....	3	6	....	1	15
Stables	1	1	....	....	....	1	1	....	2	....	....	6
Schools	....	....	....	....	....	....	1	1	....	....	....	2
Stores and offices	....	....	3	2	1	1	1	1	....	....	....	9
Storehouses	3	2	1	4	1	2	2	....	3	....	3	21
Razed	3	1	....	4	4	7	3	1	4	2	1	30
Miscellaneous	4	....	1	4	2	1	....	3	2	3	4	24
Totals	45	13	29	66	26	50	37	33	76	47	51	473

Cost of building operations for previous years: —

1899	$1,759,895 00
1900	2,266,615 00
1901	1,664,390 00
1902	2,232,365 00
1903	1,290,694 00

COST OF BUILDINGS ERECTED IN 1904.

	Ward 1.		Ward 2.		Ward 3.		Ward 4.		Ward 5.		Ward 6.	
	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.
December	.....	$500	.....	.....	.....	$40	$23,700	$3,000	$6,500	.....	$5,000	$3,000
January	$75	.....	.....	.....	.....	260	.....	350	.....	.....	.....	200
February	221,500	700	.....	.....	.....	200	.....	400	.....	.....	.....	1,200
March	.....	3,300	.....	.....	$500	3,850	2,000	1,600	30,000	$300	.....	100
April	7,000	.....	.....	$50	75	200	.....	3,250	40,000	1,950	14,300	1,000
May	650	2,700	.....	.....	100	825	.....	2,950	.....	5,400	3,000	650
June	.....	1,300	.....	.....	200	800	600	2,350	.....	450	100	2,870
July	3,800	300	.....	300	5,000	.....	.....	900	105,000	2,225	55,500	850
August	.....	950	$3,450	1,500	.....	200	7,000	4,850	.....	.....	4,200	1,850
September	.....	4,600	5,000	300	.....	1,650	.....	1,050	.....	700	3,050	.....
October	.....	200	.....	.....	425	300	25,200	1,275	.....	.....	9,000	150
November	250	450	175	.....	.....	.....	50	700	10,000	250	100	1,200
Totals	$233,275	$15,000	$8,625	$2,150	$6,300	$8,325	$58,550	$22,675	$191,500	$11,275	$94,250	$13,070

COST OF BUILDINGS ERECTED IN 1904 — *Continued.*

	Ward 7.		Ward 8.		Ward 9.		Ward 10.		Ward 11.		Totals.	
	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.
December	.....	$150	.....	$250	$5,000	$950	.....	.....	$5,000	.....	$45,200	$7,890
January	.....	.....	.....	.....	.....	7,550	.....	$200	.....	.....	75	8,560
February	.....	300	$100,000	.....	3,000	3,800	.....	.....	.....	$300	324,500	6,900
March	$4,500	2,200	.....	.....	11,500	28,800	$9,000	200	11,100	1,700	68,600	42,050
April	.....	250	100	1,300	110,000	50,500	5,000	175	250	1,600	176,725	60,275
May	2,500	50	.....	700	47,500	5,800	66,000	1,825	4,000	4,000	123,750	24,900
June	13,800	100	9,700	7,700	.....	8,175	161,500	1,200	16,400	2,250	202,300	27,195
July	4,000	4,100	150,000	800	54,500	2,000	21,000	1,900	900	500	399,700	13,875
August	4,500	2,000	.....	850	.....	3,000	31,000	100	5,500	5,350	55,650	20,650
September	.....	150	.....	650	4,200	7,400	100	225	.....	2,250	12,350	18,975
October	.....	1,050	.....	8,000	37,100	2,950	175	.....	5,500	100	77,400	14,025
November	90,000	6,600	.....	150	21,600	2,150	1,500	350	92,600	4,350	216,275	16,200
	$119,300	$16 950	$259,800	$20,400	$294,400	$123,075	$295,275	$6,175	$141,250	$22,400	$1,702,525	$261,495

REPORT OF INSPECTOR OF MILK

FEB. 6, 1904, TO DEC. 1, 1904.

OFFICE OF INSPECTOR OF MILK AND VINEGAR,
CAMBRIDGE, MASS.

To His Honor, the Mayor, and the City Council of the City of Cambridge: —

GENTLEMEN: — I have the honor to present the report of the Department of Milk Inspection for the period beginning February 6, and ending December 1, 1904.

On February 17, 1904, Clemence J. Hogan was appointed from the clerk's list of the Civil Service, Collector of Samples. His appointment was confirmed by the Mayor and he began his duties February 18.

MILK.

During the period named 3,036 samples of milk have been analized, and of these 2,748 samples were taken by the department from dealers in milk. The results of the analyses are given in detail in the following table: —

TABLE I.

RESULTS OF ANALYTICAL WORK ON MILK.

MONTHS. February 6, 1904, to December 1, 1904.	Number of samples.	Samples below standard, in fat or solids.	Per cent. below standard, in fat or solids.	TOTAL SOLIDS.			FATS.			Solids, not fat. Average.	Warnings sent.
				Highest.	Lowest.	Average.	Highest.	Lowest.	Average.		
* February	149	110	73.8	16.74	9.96	12.69	10.2	1.4	3.68	9.01	29
* March	364	291	80.0	24.94	10.20	12.68	17.7	2.2	3.56	9.12	63
† April	248	35	14.1	18.88	10.50	12.58	10.2	1.7	3.52	9.06	31
† May	369	54	14.6	17.08	10.82	12.47	8.7	1.8	3.58	8.89	52
† June	319	36	11.3	20.54	9.86	12.60	13.3	0.9	3.65	8.95	33
† July	258	39	15.1	19.50	11.16	12.44	11.1	2.1	3.61	8.83	39
† August	138	12	8.7	19.42	11.10	12.64	9.8	2.3	3.80	8.84	11
† September	292	28	9.6	19.18	9.52	12.57	10.1	0.6	3.61	8.96	27
* October	352	229	65.0	26.16	10.82	12.94	17.1	1.7	3.84	9.10	26
* November	259	138	53.3	14.96	9.30	12.91	5.6	2.4	3.85	9.06	16
Whole period	2,748	972	39.0	26.16	9.30	12.66	17.7	0.6	3.66	9.00	327

* Standard — 13 per cent. total solids, 3.7 per cent. fat.
† Standard — 12 per cent. total solids, 3 per cent. fat.

COLORED AND PRESERVED SAMPLES.

May, 8 colored.
June, 1 colored, 2 preserved.

In interpreting the results it must be borne in mind that the standard of milk is 13 per cent. from April 1 to October 1 and only 12 per cent for the remaining months. Such a change in standard is not warranted by the facts and it would be much more equitable to all concerned if the law required 12.5 per cent. total solids and 3.5 per cent. fat throughout the year.

Nine colored samples were detected during the months of May and June, but two court cases with fines of fifty dollars for each offender put a stop to this practice and none have been detected since. Although from April 1 to October 1 all samples were examined for preservatives but one seizure was found adulterated. In this instance complaint was made in court for selling milk containing borax and the case was placed on file. It is only by the most rigid inspection on the part of the city and state that these forms of adulteration can be kept down. As soon as the least laxity is observed, coloring matter and preservatives are sure to make their appearance.

IMPROVEMENT IN THE SANITARY CONDITION OF THE MILK SUPPLY.

Improvements in the methods of raising and handling milk have been gradually taking place but much remains to be done. Some dealers have begun to deliver milk to stores put up in quart and pint bottles, and the extension of the practice is much to be desired. Nothing can be more unhygienic than the present methods of retailing as carried out by store keepers who neither appreciate nor practice cleanliness. If the milk could be bottled on the farm with good surroundings and intelligent care and kept on ice until delivered to the customer a big advance would be made.

A series of inspections of milk depots, farms and methods of transportation covering much of eastern Massachusetts convinced your Inspector that while the great body of producers was composed of honest and capable men, there was need of rules and regulations concerning the production, handling and storage of milk, both to encourage those who are intelligently trying to educate the public to an appreciation of a clean supply, and to discourage those who keep dirty unsanitary dairies.

The Board of Health willingly accepted the suggestion and passed the following regulations on November 16 : —

REGULATIONS FOR THE SALE AND CARE OF MILK.

Section 1. The conditions under which every cow whose milk is sold or exposed for sale in the City of Cambridge shall be made known to the Board of Health, if said Board shall deem it necessary.

Sec. 2. No milk shall be sold or offered for sale unless the cows from which it is derived have within one year, been examined by a competent

authority and shown to be free from disease dangerous to the public health.

Sec. 3. No milk kept for sale shall be stored, strained, cooled or mixed in any room used in whole or in part for domestic or sleeping purposes or for the stabling of horses or cattle or other animals or for the storage of manure, offal or other offensive matter.

Sec. 4. All rooms in which milk is stored, cooled, strained or mixed shall be provided with tight walls and floor and kept constantly clean. Proper apparatus shall be provided for washing or sterilizing all utensils used in handling milk and such utensils shall be washed with boiling water or sterilized by steam after being so used.

Sec. 5. No urinal, water closet or privy shall be located in the rooms called for in the preceding sections or so situated as to pollute the atmosphere of said rooms.

Sec. 6. All milk produced for the purpose of sale shall be strained and cooled as soon as it is drawn from the cow.

Sec. 7. Milk kept for sale in any store, booth or stand, shall at all times register on test a temperature not higher than fifty degrees Fahrenheit, and shall be stored in a covered cooler, box or refrigerator.

Sec. 8. All cans, bottles or other vessels of any sort used in the sale or handling of milk shall be cleaned or sterilized before they are used again for the same purpose.

Sec. 9. No person shall use a milk vessel as a container for any other substance than milk.

Sec. 10. Every person engaged in the production, storage, transportation, sale, delivery or distribution of milk, immediately on the occurrence of any case or cases of infectious disease, either in himself or in his family or amongst his employees or their immediate associates, or within the building or premises where milk is stored, sold, distributed, shall notify the Cambridge Board of Health.

Sec. 11. No person having an infectious disease, or having recently been in contact with a person having an infectious disease, shall milk or handle cows, measures or other vessels used for milk intended for sale or in any way take part or assist in handling milk intended for sale until all danger of communicating such disease to other persons shall have passed.

Sec. 12. No vessels which have been handled by persons suffering from such an infectious disease shall be used to hold or convey milk until they have been thoroughly sterilized.

Sec. 13. No bottle, can or receptacle used for the reception or storage of milk shall be removed from a private house, apartment or tenement wherein a person has an infectious disease except with the consent of the Board of Health.

Sec. 14. No person, by himself, or by his servant or agent or as the servant or agent of any other person, firm, corporation shall bring into the City of Cambridge for the purposes of sale, exchange or delivery or sell, exchange or deliver any milk, skimmed milk, or cream which contains more than 500,000 bacteria per cubic centimeter, or which has a temperature higher than fifty degrees Fahrenheit.

Sec. 15. Whoever violates the above Regulation is liable to a fine not exceeding one hundred ($100) dollars.

A careful observance of the spirit of these regulations cannot fail to bring about a decided improvement in the quality of the milk supplied to the City and it is hoped that the milk dealers will find it to their advantage to aid the department in every way in enforcing them.

INVESTIGATION OF DISEASES.

In the month of August, a rise in the number of cases of typhoid fever led to a thorough investigation of the relation of the milk supply to every case. All cases were plotted on a map of the City and tabulated by milk men, by wholesalers and by contiguous stores but no causal connection was ever established between the milk supply and the patient.

CREAM.

Cream samples to the number of thirty-six were analyzed for fat, preservatives, and thickeners. No preservatives or thickeners were found. The fats are as follows: —

TABLE II.

PER CENT. FAT IN CREAM.

HEAVY CREAM.

39.9	42.8	39.2	40.6
43.6	39.1	43.7	....
36.9	36 5	41.4	....

Average of 10 samples, 40.37

LIGHT CREAM.

20.4	18.6	15.9	17.4
17.8	18.6	14.6	18.7
17.6	21.8	20.1	20.7
23.5	23.1	16.7	22.3
16.4	19.2	19.7	18.7
18.2	16.7	19.3	....
21.5	17.2	26.3	....

Average of 26 samples, 19.27

From the highly concentrated value in cream and the difficulty of judging it by viscosity alone, a law for the regulation of the amount of fat present in the different grades would seem to be needed. From the averages given above twenty per cent. for light, thirty per cent. for medium and forty per cent. for heavy would be not unjust requirements. Such laws have already been passed by some of the western cities and by the State of Minnesota.

BUTTER.

An inspection of the butter of every store has been made and twenty-three samples have been analyzed. Of these one was oleomargarine and four were process. The oleomargarine and two of the process samples were properly marked. The other two, both taken from the same dealer, were not sold in wrappers marked as required by law, and a complaint, resulting in a conviction, was made against him.

On the first of May the only two dealers licensed to sell oleomargarine did not renew their licenses and the trade ceased to exist in the City. The sale of process butter has shown a great decline and although two years ago its sale was general there are today but few stores which carry it in stock.

All samples were tested for borax but none was found. The water varied from 4.50 to 21.00, with an average of 11.39.

VINEGAR.

The vinegar sold in the City shows a general desire on the part of dealers to comply with the law. All samples were analyzed for solids, acidity, ash and alkalinity of ash. In addition they were tested for malates, calcium, sulphates and chlorides, and polarized.

The results are given in the following table: —

Samples Marked Cider Vinegar.

Total samples	78
Below 4.5 per cent. acid	5
Below 2 per cent. solids	3
Not cider	4

Samples Marked Red Vinegar, Common Vinegar or Standard Vinegar.

Total samples	11
Below 4.5 per cent. acid	1
Cider vinegar	4

Samples Marked White Wine.

Total samples	13
Below 4.5 per cent. acid	2

One court case was brought for selling standard vinegar as cider vinegar, but owing to lack of proof of sale by the party brought in, it was dismissed.

ENLARGEMENT OF DEPARTMENT.

The work of the department has for several years been crippled by lack of proper facilities for work. Only the exercise of great caution and forethought has enabled the department to carry on the large

amount of work involved in the analysis of three thousands samples of food materials in ten months without annoying the other occupants of City Hall. A chemical laboratory without a hood and a chimney connection is necessarily debarred from carrying on any investigations that produce fumes of a corrosive or annoying nature. The City has reached a stage in its growth where the provision for a chemical and bacteriolical laboratory has become a necessity.

The apparatus already owned by the department would require if properly displayed a lineal space of about forty-four feet. The crowding now necessary may be understood when it is known that the present space available is fifteen feet. To take up the bacteriological work contemplated by the new Milk Regulations passed by the Board of Health would require further apparatus which would occupy about fifteen lineal feet. Thus a room giving an unencumbered wall space of sixty feet should be provided for the department. This room should have chimney connection, hot and cold water, gas and electricity, and be well lighted.

BACTERIOLOGICAL WORK.

The chemical, clerical and inspection work connected with the examination of about four thousand samples a year, the supervision of one hundred and fifty milkmen, and the inspection of five hundred stores has fully occupied the time of the department, but it is highly desirable that work be begun on the bacteriological examination of samples. By requiring the collector of samples to give his full time to the department your Inspector believes that the work can be accomplished, for the present, without increasing the force of the department and without giving up the work already instituted. That this innovation is a pressing need no one who has given the milk supply of a large city even the most cursory study can doubt for a moment.

The increased appropriation required would be about one thousand dollars but the benefit to the community would be infinitely more than the one cent per inhabitant that the increase would call for.

The following statistics are taken from the records of the department: —

Stores on record December 1, 1904	474
Milkmen licensed	130
Stores licensed	193
Cows in Cambridge	176
Milk samples analyzed*	3,036
Cream samples analyzed*	36
Butter samples analyzed*	23
Vinegar samples analyzed*	101

* February 4, 1904, to December 1, 1904.

COURT CASES*.

Complaints	9
Convictions	6
Placed on file	1
Dismissed	2

Nature of Complaints.

Milk below standard	4
Coloring matter in milk	2
Preservative in milk	1
Process butter for butter	1
Vinegar not cider vinegar	1
Fines	$165 00

*February 4, 1904, to December 1, 1904.

MILK CONSUMPTION, JUNE 1, 1904.

The figures are for cans of 8 1-2 quarts and for gallons per day.

	Cans.	Gallons.
Total milk consumed	4,720	10,030
Milk sold from wagons	2,398	5,096
Milk sold from stores	2,283	4,851
Milk produced by consumer	39	83
Skim milk	119	253
Cream	767 qts.	192

Sources of Milk Supply.

	Cans.	Gallons.
Milk brought by railroad	3,126	6,643
Milk brought by wagon	1,409	2,994
Milk raised in City	185	393
Milk brought in by producer	659	1,400

EXPENDITURES.

December 1, 1903, to December 1, 1904.

SALARIES.

Appropriation		$1,375 00
EXPENDED.		
Nor salaries of: —		
Inspectors: —		
Philip P. Sharples	$742 26	
Wm. C. Lane	157 74	
Deputies: —		
Clemence J. Hogan	364 50	
Edward W. Abbott	99 00	
	$1,363 50	
Balance of appropriation	11 50	
		$1,375 00

GENERAL EXPENSES.

Appropriation		$300 00

EXPENDED.

Printing	$81 65	
Apparatus	122 82	
Chemicals	23 19	
Car tickets	50 00	
Stationery	12 01	
Express	4 84	
Samples and incidentals	3 71	
	$298 22	
Balance of appropriation	1 78	
		$300 00

Respectfully,

PHILIP P. SHARPLES,
Inspector of Milk and Vinegar.

REPORT OF THE BOARD OF SURVEY

City of Cambridge, December, 1904.

The fourth annual report of this Board is herewith respectfully submitted: —

In the month of January, James A. Wood, Esq., was reappointed by His Honor, the Mayor, to be a member of the Board for three years. The organization of the Board as made in the year 1903, was continued for another year.

The matter of changing the approach to Main Street from First Street which has been before the Board during the previous year was taken up for consideration at the first meeting of the Board in January last.

Tentative plans of the proposed changes rendered necessary by the construction of the Cambridge Bridge, were exhibited by the City Engineer, the same showing a new approach of First Street; the extension of Commercial Avenue to the line of Second Street produced; the extension of Second Street to Broad Canal, and the widening of Athenaeum Street. It was decided to give a hearing upon the matter of these plans on February 4th, at 8 o'clock P. M., at which time a large number of parties interested appeared and conflicting opinions were expressed, as to the advisability of recommending either of the plans, six of which had been prepared by the City Engineer. This hearing was continued to February 18th at which time the Park Commissioners and others were also heard. It was finally decided to invite a conference upon the subject between the City Engineers of Boston and Cambridge, the Boston Elevated Railway Company and Mr. F. L. Olmstead. A conference was accordingly held on March 8th at the Mayor's office, but no action was taken. The matter has not since been before the Board.

The Board has considered and approved plans of streets as follows: —

Name.	From	To	Date of Plan.
Gurney street	Fayerweather street	Huron avenue	Apr. 15, 1904
Bolton street	Sherman street	City yard	Oct. 25, 1899
Brookford street	Massachusetts avenue	Whittemore street	Apr. 30, 1904
Danforth street	Amherst street	Esplanade	May 28, 1904
Oxford avenue	Fairview avenue	Belmont line	May 13, 1904
Fairmont avenue	Oxford avenue	Belmont line	
Tuttle street	Donnell street	Huron avenue	Feb., 1904
Oak circle	Oak street	Somerville line	Oct. 8, 1904
Exeter park	Massachusetts avenue	Easterly	Nov. 14, 1904
Harvey street	Cedar street	Massachusetts avenue	Nov. 4, 1904
Dodge street	Western avenue	Grigg street	July 22, 1903
Francis avenue	Kirkland street	Northerly 866 feet	Nov., 1903

The subject of the proposed defining and locating anew the lines of Massachusetts Avenue, on both sides from Pleasant Street and Inman Street easterly, was referred to this Board under the provisions of Section 4 of the Acts of 1903. It had been under consideration from time to time since the year 1864, when the first plan of the boundary line was made by authority of an order passed December 9, 1863.

After a full hearing of all parties interested, the Board on June 22nd voted to "approve the plan of Massachusetts Avenue, between Inman Street and Columbia Street on the northeasterly side and between Pleasant and Brookline Street on the southwesterly side, according to a plan drawn by L. M. Hastings, City Engineer of Cambridge, entitled 'Plan showing lines of a portion of Massachusetts Avenue as proposed to be defined and located anew, May 21, 1904, the boundary lines upon said plan being in substantial compliance with the plan of J. G. Chase, Civil Engineer, dated April 22, 1864, and an order of the Board of Aldermen passed December 9, 1863.

It was further voted, To recommend to the City Council that the lines of said Massachusetts Avenue, between the points before mentioned, be defined and located anew in accordance with said plan.

Only one plan referred to this Board by the City Council in the year 1904, namely that of Whittemore Avenue, had not been acted upon at the time of the preparation of this report. Action upon this matter was deferred to afford to the Board an opportunity to visit this street.

It appears by the foregoing statement of the work done by the Board during the past year, that it has considered and reported upon the plans of eleven proposed streets, in addition to which the subject of the lines of Massachusetts Avenue, has also been considered. In all cases where final action has been taken by the City Council upon matters reported upon by this Board, such action has been in full concurrence with its recommendations.

WILLIAM E. DOYLE,
JAMES A. WOOD,
JOHN T. SCULLY,
} *Board of Survey.*

REPORT OF THE TRUSTEES OF THE DOWSE INSTITUTE

CAMBRIDGE, December 1, 1904.

To the Honorable, the City Council: —

The Board of Trustees of the Dowse Institute respectfully reports that a course of five free lectures, one reading and one entertainment was given in Durrell Hall beginning January 5 and ending February 16, 1904.

An attested copy of the accounts of the Treasurer is herewith submitted showing the amounts of receipts and expenditures.

FRANK A. ALLEN,
WILLARD A. BULLARD,
GEO. HOWLAND COX,
} *Board of Trustees.*

W. A. BULLARD, TREASURER IN ACCOUNT WITH DOWSE INSTITUTE.

Dr.

1904.		
To Balance		$34 50
City of Cambridge, interest on fund one year		600 00
		$634 50

Cr.

1904.	
By Cambridge Press, advertising	$10 00
Cambridge Tribune, advertising	10 00
Cambridge Chronicle, advertising	10 00
Times Publishing Co., advertising	10 00
J. H. Ford, printing	8 00
Doorkeepers and ushers	22 00
Hall rent	175 00
John C. Bowker, lecture	50 00
Burton L. Thomas, lecture	40 00
Charles M. Fuller, lecture	25 00
A. K. Peck, lecture	35 00
A. E. Kennelley, lecture	50 00
H. L. Southwick, reading	35 00
The Floyds, entertainment	50 00
Balance	104 50
	$634 50

ATTEST: W. A. BULLARD,
Treasurer.

Audited:
GEO. HOWLAND COX.

REPORT OF THE CHIEF OF POLICE

To the Honorable, the Mayor, and the City Council of the City of Cambridge : —

Gentlemen : — In compliance with the City Ordinance, I have the honor to present the annual report of the work of the Police Department to November 30, 1904.

The whole number of arrests for the year has been three thousand two hundred and forty-six (3,246) against two thousand eight hundred and two (2,802) last year, an increase of four hundred and forty-four (444).

Males	3,033	Adults	2,720
Females	213	Minors	526

The offences for which arrests have been made are as follows : —

Adultery	6	Disturbance on street car	18
Assault and battery	197	Default warrant	2
Assault, felonious	6	Escaped prisoners	6
Assault on officer	6	Evading car fare	15
Assault, indecent	3	Exposure of person	4
Assault with intent to rob	2	False pretense	1
Arson	2	Forgery	5
Assault with dangerous weapon	5	Fornication	3
Attempt to commit larceny	4	Giving false alarm of fire	4
Altering scales	3	Gaming, or present at	53
Bastardy	11	Gaming on Lord's day	55
Being present where gaming implements were found	20	Giving false answers to City Clerk	1
Breaking and entering	67	Highway robbery	2
Bigamy	2	Idle and disorderly	6
Burglary	1	Insane	22
Buying second-hand articles from minors	3	Illegal transportation	1
Boarding house beat	2	Illegal sale of liquor	7
Capias	55	Injuring building	2
Common drunkard	23	Keeping liquor with intent to sell	2
Conveying leased property	4	Keeping unlicensed dogs	4
Common railer and brawler	1	Keeping open shop on Lord's day	1
Cruelty to animals	1	Keeping common gaming house	1
Conveying liquor to prisoner	1	Liquor nuisance	20
Destroying personal property	2	Larceny	340
Discharging firearms	6	Larceny from building	13
Disturbing public peace	253	Lewd and lascivious	2
Disturbing religious meeting	10	Larceny from person	4
Disorderly conduct	2	Loitering	18
Defrauding	2	Malicious mischief	20
Drunkenness	1,518	Manslaughter	3
Defacing property	4	Murder	1
		Non-support	65
		Neglected children	12

Not killing dangerous dog	1	Unlawfully appropriating a team	2
Obstructing street car	2	Using auto. without number	5
Obstructing officer	2	Unnatural act	2
Promoting lottery	1	Violation food law	5
Promoting sparring exhibition	2	Vagrants	10
Peddling without license	42	Violating City ordinances	63
Receiving stolen goods	6	Violating Lord's day	2
Robbery	1	Violating milk law	11
Speeding auto. more than 10 miles an hour	5	Violating terms of probation	15
Safekeeping	17	Violating postal laws	1
Stubborn children	13	Violating Park rules	4
Suspicious persons	7	Violating Board of Health rules	6
Selling cigarettes to minors	1	Violating pool and billiard license	6
Threatening	8	Violating butter law	3
Truants	1	Violating rules of District Police	2
Trespass	42	Walking on railroad track	14
Tramps	6	Wilfully breaking glass	3

Whole number of lodgers, 235.

Males	235	Minors	0
Females	0	White	233
Adults	235	Colored	2

NATIVITY OF PRISONERS.

United States	1,953	Finland	5
Ireland	664	Armenia	2
British Provinces	285	France	4
England	60	Holland	1
Sweden	65	Turkey	7
Italy	34	Denmark	2
Scotland	37	Austria	3
Germany	13	Syria	3
Greece	20	West Indies	6
Norway	4	Poland	11
Russia	53	Portugal	14

OCCUPATION OF PRISONERS.

Agents	23	Cabinetmakers	5
Bakers	21	Cigarmakers	6
Barbers	31	Doctors	2
Brass finishers	3	Druggists	9
Blacksmiths	31	Domestics	43
Butchers	21	Expressmen	6
Boiler makers	7	Electricians	8
Bookbinders	4	Engineers	11
Bookkeepers	3	Farmers	17
Brokers	3	Firemen	15
Bartenders	2	Florists	4
Cooks	16	Gardeners	26
Coopers	20	Glass cutters	3
Carpenters	74	Housekeepers	134
Confectioners	11	Harnessmakers	4
Coachmen	5	Hostlers	19
Clerks	58	Ironworkers	21

Junk dealers	11	Roofers	10
Janitors	9	Reporters	1
Laborers	1,050	Rubber workers	44
Laundresses	4	Railroad men	23
Lawyer	3	Sailors	14
Musicians	1	Steamfitters	10
Masons	34	Stonecutters	16
Milkmen	16	Storekeepers	37
Machinists	60	Students	19
Marble workers	5	Shoemakers	24
Moulders	33	Shippers	10
No occupation	526	Salesmen	34
Piano workers	13	Tailors	20
Polishers	8	Teachers	4
Plumbers	30	Teamsters	259
Printers	41	Tinsmiths	17
Painters	73	Weavers	2
Peddlers	98	Waiters	21

MISCELLANEOUS BUSINESS.

Accidents	189	Defective wires	81
Buildings found open and secured	233	Defective streets and sidewalks	1,307
Cases investigated	1,436	Disturbances suppressed	182
Dangerous buildings	3	Dogs killed	31
Dangerous chimneys	3	Fire alarms given	21
Dead bodies found	13	Fires extinguished without alarms	22
Defective catch basins	60	Intoxicated persons helped home	5
Defective drains and vaults	1	Lost children restored	419
Defective fire alarms and clocks	1	Sick and injured persons assisted	109
Defective gas pipes	14	Stray teams put up	34
Defective water pipes	159	Street obstructions removed	17
Defective hydrants	12	Water running to waste	46
Defective lamps	4,923		

Amount of property reported stolen	$10,747 11
Amount of property recovered	9,843 00

SIGNAL SYSTEMS.

In the three signal districts during the past year there have been : —

Duty call by officers	348,624
Telephone calls	22 864
Wagon calls	1,622
Miles run	2,971,81
To fires	5
Sick and injured persons carried to hospital	10
Sick and injured persons carried home	8
Other runs	46

AMBULANCE.

The ambulance has been called to three hundred and seven (307) accidents, and forty-nine (49) removals.

CITY PROPERTY IN USE BY POLICE DEPARTMENT.

150	badges	$100 00	3	patrol wagons	$1,000 00
125	belts	143 75	115	revolvers	480 00
125	short billies	62 50		Ropes and stakes	6 00
6	bedsteads	36 00	3	robes, carriage	10 00
	Bedding and blankets	50 00	1	rogues' gallery	150 00
1	buggy	75 00	2	safes	100 00
5	clocks	25 00	8	spittoons	2 00
2	bureaus	3 00	1	sleigh	25 00
75	chairs	95 00	1	stove	8 00
150	copies police rules	30 00	2	straps and weights	1 00
13	desks	260 00	1	telephone line	300 00
1	easy chair, Matron's	10 00	3	thermometers	2 00
5	horses	500 00	6	tables	12 00
6	harnesses	180 00	40	tin dippers	4 00
4	halters	1 00	1	typewriter and desk	140 00
1	hat rack	3 00	2	umbrella stands	2 00
10	ink stands	5 00	1	wagon van, old	25 00
50	lanterns	37 50	8	waste baskets	3 00
8	mirrors	16 00	4	water coolers	20 00
3	maps	15 00		Operating table and chair	37 50
10	rugs	30 00	3	medicine cabinets	75 00
12	pairs handcuffs	36 00	2	wardrobes	15 00
1	police van	200 00	2	wagon jacks	2 00
3	police signal systems	12,000 00			
					$16,333 25

EXPENDITURES.

Boarding horses	$306 50
Buttons for department	142 92
Boston Elevated Railway Company	175 00
Cambridge Gas Light Company	718 26
Cambridge Electric Light Co.	209 49
Cleaning stations	228 40
Cloth for department	1,113 16
Clipping horses	9 00
Directories for department	28 00
Gas Consumers Association	9 00
Travelling expenses	48 59
Printing	78 25
Photographs for rogues' gallery	23 00
New England Telephone & Telegraph Co.	422 38
Hay and grain	352 65
Expressing	6 95
Revolvers, new	180 00
Medicines	25 00
Moving safe	5 00
Harness, new	65 00
Shoeing horses	193 25
Food for prisoners	58 99
Ice for department	71 31
Rebate on minors licenses	40 05
Repairs on harnesses	38 80
Horses, new	350 00
Repairs on furniture	32 60
Public property for heating stations	890 00
Horse hire	21 00
Laundry	43 31

Repairs on buildings	$44 73
Medical attendance	23 00
Repairs on revolvers	5 21
Repairs on wagons	183 22
Supplies for stations	813 32
Military instruction	30 00
Salary of Chief of Police	2,000 00
Salary of Deputy Chief of Police	1,500 00
Salary of Captains and Chief Inspector	5,600 00
Policemen, services of	127,185 36
	$143,271 60
Appropriation	$143,350 00
Expenditures	143,271 60
Balance unexpended	$78 40

MEMBERSHIP.

The membership of the department is as follows: —

Chief, FREDERICK B. PULLEN

Deputy Chief, WILLIAM F. BATCHELDER

Captains.

John F. Murray — James E. Murray — John J. McBride

Chief Inspector.

Captain Patrick J. Hurley

Assistant Inspectors.

Lieut. James A. Cox — Lieut. John W. Deehan — Lieut. Michael Neilan

Lieutenants.

Daniel Callahan
Michael J. Conry
James S. Alexander
David A. Stevens
Charles L. Pike
James P. Hall

Sergeants.

James E. McNulty
Patrick F. Murray
Herbert Gordon
Frederick A. Robinson
Daniel F. Counihan
Orrin B. White

Patrolmen.

Richard H. Aylward
Charles F. Aberle
William H Aberle
Michael J. Brennan
George T. Barrington
Ernest E. Blanchard
Elbridge S. Blen
Charles E. Bradley
Thomas F. Coady
John J. Canney
Thomas M. Campbell
Edward J. Comerford
Robert C Culhane
Timothy Crane
Timothy Corcoran
John Coulter

John P. Conroy
Anton B. Diehl
Patrick Doyle
Harry W. Davis
Patrick F. Dunlea
Thomas F. Dynan
Joseph J Donahue
Frederick M. Ellis
James B. Forristall
Joseph H Furbush
Michael A Ginty
William B Ginty
John J. Griffiths
Mortimer M. Hackett
John A. Hezlitt
Benjamin F. Higgins
William H Hill
James H. H. Holt
Edward F. Horrigan
William H. H. Howe
Dexter Jewett
James M Keaney
John Kelleher
Patrick D. Kelley
Michael J. Kelley
Frederick L. Ladd
Frank D. LaMarche
Frederick W Law
Dennis F Leahy
Timothy F. Leahy
Augustus J. Largenton
George J. Mahoney
John P. Maloy
Charles C. Marston
Edward J McCabe
Bernard Caffrey
Charles J McCann
Jeremiah H. McCarthy
John E. McCrehan
Joseph F McCorry
Richard M. McFadden
Richard F. McKeown
Jeremiah P. McCarthy
Frank McArthur
James L. McElroy
William H. McMenimen.
Robert E. Mullen
William N. Mullins
Simon J. Mulvaney
John P. Neilan
Joseph W. Parks
Charles H. Presho
Charles W. Priest
Thomas J Real
Ralph R. Rice
John W. Roberts
William H. Robertson
Bernard J Roper
Thomas P. Rowe
William H. Rowe
Frank W. Scobey
Benjamin C. Scully
John W. Skelley
George Smyth
John J. Sheehan
Cornelius Sheehan
Thomas Shea
Cornelius Sullivan
Joseph C. Temple
David H. Walsh
David L Walsh
Edward J. Welch
John H Wells
John E. Winslow
Charles W. Wyman

Reserve Officers.

John F. Powers
George A. Patten
Peter Murphy
Thomas F Burke
John J. O'Brien
Joseph F Doherty
Lochlin Gavin
Robert J. Douglas
Patrick J. Healey
Jerome D. Ireland
Joseph H. Shannon
Francis H. Gutoski
Thomas J Shannon
Patrick H. McNamara

Drivers.

John Coffey
John T. Cook
Dennis J. Sullivan
John Sullivan
Warren H. Dow
George E. Sherman

Matrons.

Elizabeth Doyle
Mary McEachern

Pensioners.

Lothrop J. Cloyes
Mark J. Folsom
Henry C. Jones
Edward F. Belcher
Frederick Apel
John E. Shaughnessy
William H Graves
*Robert T. Hixon

* Died December 20th, 1904.

Thirty-five officers are on duty in the day time, one in Public Library, one in City Hall, one clerk at Chief's office, one in Station 4, five in public parks and twenty-six on street duty. During the night time the Deputy Chief, six Lieutenants, six Sergeants and seventy patrolmen are on duty, one as house officer in Station 4, two in wagon houses and sixty-seven on street duty.

Early in the year the Police Department was partially reorganized by merging the park police with the regular force and by creating nine lieutenantcies instead of one. Six Lieutenants were assigned to the several police divisions, two in each for night house duty to take the place of the Sergeants who had previously done this work, the Sergeants being assigned to street duty, one with each night relief to assist in and supervise the work of the patrolmen. This system has worked so well that I would recommend increasing the number of Sergeants to nine and promoting three patrolmen so one might be detailed for duty with the day relief in each Division. The department as at present organized consists of one Chief, one Deputy Chief, three Captains, one Chief Inspector with the rank of Captain, nine Lieutenants, three of whom are detailed to assist the Chief Inspector, six Sergeants, ninety-one patrolmen and fourteen reserve officers, making a total of 126 officers on active duty, an increase of twelve over last year.

CHANGES.

There has been during the year one Chief superseded by one Captain promoted to Chief. One Chief Inspector transferred to Captaincy of Division, one patrolman promoted to be Chief Inspector, one Lieutenant reduced to rank of patrolman, six Sergeants and three patrolmen promoted to rank of Lieutenant, three Sergeants reduced to patrolmen and six patrolmen promoted to rank of Sergeant. Three patrolmen were retired on pension, having become mentally or physically incapacitated.

The department has lost by death during the year its oldest member in point of service, Lieutenant William Mullett. His long service, genial manner and sterling integrity had won for him the respect and love of his fellow officers and citizens generally. One Sergeant was promoted to fill the vacancy caused by the death of Lieutenant Mullett and one patrolman to fill the vacancy in rank of Sergeant caused by the promotion as above.

One patrolman resigned and was reinstated within six months at his own request, as provided for in the Civil Service rules. Twelve reserve officers have been appointed patrolmen to fill vacancies caused by promotion and retirement. Sixteen reserve officers have been appointed under Civil Service rules to fill vacancies and the increase of four in the num-

ber of reserve officers allowed by the order of the Board of Aldermen. One matron has died and one was appointed to fill vacancy.

Thirty-two complaints for violation of the liquor law have been made during the year against eight last year, which indicates that a more determined effort has been made this year than last to enforce the law. I believe the restrictions on the keeping of liquor for sale by licensees of the sixth class should be more strict, so that liquor could not be kept in half pint and pint bottles done up ready for delivery.

I have seen in some drug stores 300 to 400 half pints and 50 to 100 pints. The honest druggist who wishes to do only a legitimate traffic in liquor will not complain of any restriction which will tend to elevate the trade.

The Inspectors' Department under Chief Inspector Hurley has been very successful in ferreting out the perpetrators of crime and their arrest; but very few serious offences have occurred that the guilty party has not been found. A large amount of stolen property also has been recovered by Captain Hurley and his assistants.

Early in the season a system of drill was established, under the regulations, and Sergeant William J. Green, Co. K, Eighth Reg., M. V. M., secured as drill master. The department was divided into two squads and each reports at the State Armory one day on alternate weeks for one hour's instruction and drill in company movements, and the best position to stand and walk with the least fatigue. This instruction has proved very beneficial as is evinced by the improved appearance of the patrolmen on the street. There has been a decided improvement in the efficiency of the department in preventing crimes and misdemeanors.

The sidewalks have been kept free from loiterers, and cleaner than the usual conditions left by such persons when they were allowed to stand unmolested. The Sergeants and patrolmen have been generally alert and watchful, as shown by the number of arrests of persons for breaking and entering found by them in the act. One Sergeant and two patrolmen have been commended in general orders and extra days' leave of absence granted in specially meritorious cases.

There is needed in the First Police Division new police quarters, or a division of the District and another District made in Wards 10 and 11.

I believe, and most strongly recommend that a lot of land should be purchased in a centrally located section, and a new station house with all the appurtenances for a patrol wagon be built for the District as it now is, discontinuing the use of Station 4, and the sale of that property and the remodeling of Station 1 in Brattle Square, to provide a place for the detention of women under arrest and for the matrons' use. The quarters now used for the purpose are totally inadequate and a disgrace to a city

of the prominence of Cambridge. A place should be provided in this building for the detention and treatment of persons who have committed no offence, but whom it is necessary to detain for safety and treatment; such as has been recommended by the Cambridge Medical Improvement Society, and now pending before the Board of Aldermen. A portion of the building should be used as a city prison for the detention of persons under arrest and waiting a hearing in the District Court. Officers who have become incapacitated for street duty could be detailed in charge of the place at a small expense. This plan of keeping the District intact would result in a saving of the salary of one Captain, two Lieutenants and two Sergeants, a total of $6,172.00, enough to pay for a new police station and land in a few years.

In concluding I wish to extend my thanks to His Honor the Justice of the Third District Court, for his advice and co-operation in enforcing the laws and ordinances, and to His Honor the Mayor, the Committee on Police and Board of Aldermen, the City Solicitor, City Clerk, the Auditor and Mayor's Clerk for their kind advice and assistance in my many duties, and to the Deputy Chief, the Captains and all under them for their strong support and assistance at all times in trying to make our police force second to none.

F. B. PULLEN,
Chief of Police.

REPORT OF THE INSPECTOR OF ANIMALS

To the Honorable, the City Council: —

Gentlemen: — In compliance with the City Ordinance, I have the honor to present my annual report as Inspector of Animals and Veterinarian for the City of Cambridge for the year ending November 30, 1904.

I have made a general inspection of all the cows in the City, and found them to be in a healthy condition.

The watering-troughs were shut off for a time last winter, but when they were in use they were thoroughly washed out at least every other day.

I have examined about 600 horses in various stables throughout the City.

Number of horses quarantined	77
" " " killed	69

I have made in all 500 visits, and examined 20 horses for soundness.

Appropriation		$800 00
Salary	$700 00	
A. Cunningham	26 74	
H. F. Hawthorn	1 90	
F. N. Abare	3 40	
A. Smith	2 50	
W. A. Claflin	35 10	
Balance on hand	30 36	
		$800 00

Thanking His Honor, the Mayor, and members of the City Council, I am,

Very respectfully yours,

CHARLES E. HADCOCK,
Inspector of Animals.

ANNUAL REPORT OF THE CHIEF ENGINEER OF THE FIRE DEPARTMENT

CHIEF ENGINEER'S OFFICE, CITY HALL,
CAMBRIDGE, MASS., December, 1904.

To the Honorable, the City Council:—

GENTLEMEN:—In conformity with the provisions of Section 6 of the Ordinance governing the Fire Department, I herewith respectfully submit this, my twenty-sixth annual report, showing in detail the work performed by the department during the year beginning December 1, 1903, and ending November 30, 1904, also giving a statement of losses by fire, the insurance paid thereon, and the several causes so far as ascertained, together with such other information as I trust may prove of interest to you.

MANUAL FORCE.

The manual force at the present time consists of one hundred and twenty-six officers and men, comprising twelve companies, viz: seven steam engines, two chemical engines and three ladder companies, who are classified as follows.

The permanent force who devote their whole time to the City consists of:—

1 Chief Engineer.	9 Assistant Enginemen.
1 Assistant Chief Engineer.	20 Drivers.
3 Captains.	1 Tillerman.
5 Lieutenants.	8 Hosemen.
7 Enginemen.	4 Laddermen.
	59

The call force who only devote their time to the City in case of fire, consists of:—

7 Captains.	35 Hosemen.
7 Lieutenants.	18 Laddermen.
	67

APPARATUS.

Early in the year it was found necessary to send Engine No. 4 to the Manchester Locomotive Works, Manchester, N. H., to have it furnished with a new boiler and have other slight repairs made upon it. The engine was returned in August in thorough working condition.

During the year Chemical Engine No. 1 and Hose Wagon No. 2 were equipped with rubber-tires, and I am of the opinion that it would be a great saving to the department, in wear and tear, if all the remaining apparatus was so provided for.

The apparatus connected with the service has received the closest attention in order that it might be at all times in a condition for immediate use. Such repairs have been made during the year as have been required, and at present all the apparatus is in good working condition, with the exception of Steamer No. 3, now at the Manchester Locomotive Works, having a new boiler and such other alterations and repairs made as will put the engine in first-class order. This engine was put in service on January 19, 1872.

HOSE.

The amount of serviceable two and one-half inch cotton rubber-lined hose now in the service in good condition, as far as it is possible to ascertain by frequent inspection, is 13,350 feet. During the year 350 feet was purchased and an equal amount was condemned. There is also 900 feet of one-inch rubber hose and 250 feet of two-inch cotton and linen hose in service on chemical engines.

HORSES.

Three horses that were in service on Engine No. 4 were disposed of on account of their age, and were replaced with younger and more active horses; also two that were in service on Chemical Engine No. 2 were exchanged for younger ones.

There are now in the service of the department thirty-eight horses all in good condition and well suited for the work required of them, with the exception of a few that have grown old and stiff in the service. It will be necessary the coming year to replace such horses with younger and more active animals.

HOUSES.

The houses in charge of this department, as a rule, are in good condition, all necessary repairs having been made upon them during the year.

The new engine and ladder house built this year, and located at the junction of Sherman and Garden Streets, is nearly completed and will be ready for occupancy about January 1, 1905.

APPROPRIATIONS, RECEIPTS AND EXPENDITURES.

The appropriation for the maintenance of this department for the fiscal year ending November 30, 1904, was $96,575; the receipts were $245. There was also an appropriation of $30,000 for the new engine and ladder house. The principal items of expenditures were as follows: —

Salaries	$78,462 67
Apparatus, repairs of	3,623 96
Buildings, repairs on	1,328 87
Chemical supplies	97 06
Fuel for houses and engines	2,497 27
Gas and electric light	832 55
Harnesses, repairs on	301 80
Horses and horse hire	1,837 40
Horseshoeing	959 25
Hose, and repairs on	509 86
Hay, grain, straw, etc.	4,898 10
Washing clothes	249 11
Miscellaneous	917 65
Total	$96,515 55
Balance unexpended	59 45
Expended on new engine and ladder house	$17,622 54
Balance unexpended	12,377 46

FIRES AND ALARMS.

The number of fires and alarms from all causes have exceeded that of any previous year, the whole number given was 307; bell alarms 226; still alarms 81. Notwithstanding the numerous calls during the year I am pleased to report that none were of a serious nature.

The total losses together with the insurance and the amount of insurance paid was as follows: —

	Losses.	Insurance.	Insurance Paid.
On buildings	$56,601 87	$507,280 00	$55,923 87
On contents	33,493 43	114,982 87	30,092 95
Totals	$90,095 30	$622,262 87	$86,016 82

DISCHARGES.

Captain James Cunningham, call member, December 22, at his own request. His name was on pension roll to take effect December 23, 1903.

Arthur G. McArthur, permanent member, April 9, at his own request.

George W. Montgomery, permanent member, June 12, deceased.

Edward J. Flynn, call member, October 9, deceased.

APPOINTMENTS.

William J. Anderson, permanent member, May 15.
James F. Rooney, call member, June 3.
Warren A. Dale, permanent member, June 16.
James E. Cunha, call member, November 3.

ACCIDENTS.

But few accidents have befallen the members of this department the past year and I am pleased to report that none were of a serious nature.

CONCLUSION.

To the officers and members of the Fire Department my thanks are due for their faithful attention to duty and their promptness in answering the numerous calls during the year.

Respectfully submitted,

THOMAS J. CASEY,
Chief Engineer.

APPENDIX

ROLL OF OFFICERS AND MEMBERS.

ENGINEERS.

Name.	Rank.	Age.	Residence.
Thomas J. Casey	Chief Engineer	71	168 Lexington avenue.
Nathaniel W. Bunker	Asst. Chief Engineer	61	276 Portland street.

ENGINE COMPANY No. 1.

House, 108 Mt. Auburn Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
31	Daniel E. Powers	Engineman	45	108 Mt. Auburn street.
2	Hiram W. Hooker	Asst. Engineman	65	108 Mt. Auburn street.
1	Bernard J. Coakley	Driver	29	14 Hubbard avenue.
28	Daniel E. Shea	"	47	16 Athens street.
4	Thomas F. Drummond	Hoseman	36	192 Green street.
33	John Gibson, Jr.	"	29	16 Fenno street.
	Call Force.			
27	John L. Jones	Captain	53	409 Green street.
29	Thomas H. Kneeland	Lieutenant	40	108 Mt. Auburn street.
23	J. Joseph Corcoran	Hoseman	44	34 Ash street.
74	James W. Irwin	"	49	9 Story street.
97	George B. Morse	"	37	6 DeWolf street.
30	Francis V. Doyle	"	27	102 Fayerweather street.
25	James F. Rooney	"	35	108 Mt. Auburn street.

ENGINE COMPANY No. 2.

House, 384 Massachusetts Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
62	Charles A. Blair	Engineman	43	22 Springfield street.
80	John H. McDermott	Asst. Engineman	53	11 Dodge street.
75	Charles A. Olsen	Driver	37	107 School street.
68	James H. Furfey	"	47	59 Prince street.
39	Thomas H. McCourt	Hoseman	34	62 Columbia street.
	Call Force.			
69	Charles Emerson	Captain	59	5 Kinnaird street.
40	George F. Donovan	Lieutenant	35	30 Union street.
37	John Haley	Hoseman	50	358 Massachusetts avenue.
88	Charles H. Cutting	"	52	812 Main street.
67	John J. Balfe	"	33	10 Seckle street.
108	Jas. A. S. Drinkwater	"	30	721 Main street.
104	William J. Sullivan	"	26	342 Broadway.

ENGINE COMPANY No. 3.

House, 35 Third Street

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
85	Thomas F. O'Connell....	Engineman.....	43	155 Webster avenue.
115	Frank McGrath.....	Asst. Engineman	40	168 Willow street.
38	Albert R. Wait.....	Driver..	32	934 Cambridge street.
49	Patrick J. Hayes.....	"	42	92 Gore street.
15	William F. Newman, 2d.	Hoseman.....	34	37 Jefferson street.
	Call Force.			
42	Walter Baker.....	Captain.....	51	40 York street.
48	John F. Brassel.....	Lieutenant.....	50	3 Marney street.
46	Timothy J. Mahoney.....	Hoseman.....	57	346 Vine street.
112	Charles H. Leddy.....	"	44	20 Hardwick street.
16	William Reilly.....	"	35	34 Gore street.
78	Joseph A. Lincoln.....	"	34	57 Spring street.
45	Leo J. Shields	"	25	341 Cambridge street.

ENGINE COMPANY No. 4.

House, 2029 Massachusetts Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
10	John E. Ricker.....	Engineman	60	2029 Massachusetts avenue
55	Jeremiah O'Connor.....	Asst. Engineman	46	2 Olive place.
19	Albert S. Benson.....	Driver.....	62	52 Boylston street.
11	George E. Muzzey.....	"	63	5 Blake street.
57	John T. Henderson.....	Hoseman.	35	11 Yerxa road.
	Call Force.			
51	Daniel A. McCaughin....	Captain.....	47	Rear 5 Russell street.
53	Redmond M. Burke.....	Lieutenant.....	35	Rear 5 Russell street.
54	George F. Durgin.....	Hoseman.....	36	48 Norris street.
52	Joseph T. Vocell.	"	39	12 Bolton street.
105	William F. Henderson...	"	40	74 Rice street.
50	George L. Vocell.....	"	35	23 Bolton street.
56	Daniel F. McConologue..	"	32	28 Harvey street.

ENGINE COMPANY No. 5.

House, Inman Square.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
13	Charles E. Conner.....	Engineman.....	53	1335 Cambridge street.
8	Peter F. McSorley.....	Asst. Engineman	45	94 Otis street.
3	Charles R. Hooker.....	Driver.....	60	1411 Cambridge street.
9	George L. Church.....	"	25	14 Summer street.
127	John J. O'Callahan.....	Hoseman.....	35	36 Tremont street.
	Call Force.			
59	Francis P. Scanlan.	Captain.....	58	1343 Cambridge street.
64	William T. King.....	Lieutenant.....	48	231 Prospect street.
61	George W. McIntire.....	Hoseman.....	50	7 Springfield street.
66	James H. McGrath.....	"	48	12 Seckle street.
60	George W. Stevens	"	38	1307 Cambridge street.
12	John T. Downey.....	"	26	994 Cambridge street.
101	Hiram W. Hooker, 2d....	"	28	1411 Cambridge street.

ENGINE COMPANY No. 6.

House, 176 River Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
98	J. Lewis Howe.	Engineman	51	184 River street.
87	Charles A. Cairnes	Asst. Engineman	38	152 River street.
92	Robert J. Buchanan	Driver	33	20 Grigg street.
63	Warren A. Dale	"	34	104 Otis street.
34	Herman E. Gutheim	Hoseman	28	60 Spring street.
	Call Force.			
24	John H. Brown	Captain	53	206 River street.
73	Charles H. Waite	Lieutenant	58	46 Lopez street.
100	John E. Savage	Hoseman	50	29 Andrew street.
103	Thomas F. Mullin	"	31	184 River street.
106	Mortimer F. Hartney	"	30	3 Jay street.
71	Charles P. Cox, Jr.	"	33	6 Howard street.
123	William J. Doyle	"	33	23 Oak circle.

ENGINE COMPANY No. 7.

House, 350 Main Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
41	William H. Cairns	Engineman	41	18 Vernon street.
36	John McCarthy	Asst. Engineman	51	139 Massachusetts avenue.
121	John D. Shea	Driver	33	136 Winsor street.
126	Dennis R. Sullivan	"	33	35 Harvard street.
5	Henry J. O'Brien	"	28	748 Cambridge street.
	Call Force.			
93	George A. Garrity	Captain	43	6 Pioneer street.
124	Joseph A. Wood	Lieutenant	42	81 Hampshire street.
109	James E. Bligh	Hoseman	33	142 Willow street.
125	Edward Clark	"	36	234 Winsor street.
89	Joseph S Hayes	"	26	81 Webster avenue.
96	Joseph King	"	27	56 Sixth street.
35	James G. Murphy	"	33	87 Seventh street.

CHEMICAL ENGINE COMPANY No. 1.

House, 5 Western Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
17	Lewis C. Clark	Lieutenant	59	264 Green street.
82	James T. McCabe	Asst. Engineman	41	125 Green street.
99	John H. Dardis	Driver	31	27 Park street.

CHEMICAL ENGINE COMPANY No. 2.

House, 167 Lexington Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
58	William H. Barrow	Lieutenant	35	106 Fayerweather street.
6	Richard J. Doyle	Asst. Engineman	30	104 Fayerweather street.
18	William Haley	Driver	58	167 Lexington avenue.
65	Timothy Curran	Chief's Driver	35	102 Fayerweather street.

LADDER COMPANY No. 1.

House, Eliot Square.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
44	Cutler L. Vose	Captain	36	409 Green street.
114	Angus H. McDonald	Lieutenant	34	Ladder House No. 1.
26	Walter E. Chapman	Driver	37	125 Mt Auburn street.
77	Benjamin McArthur	Ladderman	30	4 De Wolf street.
81	William J. Anderson	"	33	66 Grigg street.
	Call Force.			
79	Edward P. Donahoe	Ladderman	47	1 Willard street court.
72	Joseph E. Burke	"	42	149 Putnam avenue.
70	John W Jefferson	"	39	98 Winthrop street.
107	Edward Grant	"	27	11 Gerry street.
123	Thomas J. McGowan	"	39	17 South street.
104	James E. Cunha	"	28	12 Union street.

LADDER COMPANY No. 2.

House, 276 Portland Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
22	John T. McNamee	Captain	49	96 Winthrop street.
83	James M. Casey	Lieutenant	40	353 Huron avenue.
14	James J. Clifford	Driver	32	71 Porter street.
20	Thomas Mimnaugh	Ladderman	51	35 Warren street.
86	William J. Atkinson	"	28	956 Cambridge street.
	Call Force.			
90	Albert Smith	Ladderman	59	233 Broadway.
95	Louis J. Stanger	"	50	275 Vine street.
111	Jeremiah F. Hayes	"	38	17½ Marney street.
116	Thomas J. Lane	"	40	134 Otis street.
113	William G. Johnson	"	43	14 Springfield street.
112	Thomas J. Park	"	28	148 Berkshire street.
21	Edward E. Gaughan	"	26	78 Berkshire street.

LADDER COMPANY No. 3.

House, 394 Massachusetts Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
43	William F. Newman.....	Captain.....	59	66 Winter street.
117	Edward F. Conroy.	Lieutenant.....	33	10 Mt. Auburn street.
47	Exurie J. Ouimette	Tillerman.....	41	11A Jay street.
118	William C. Richardson..	Driver.....	36	21 Columbia street.
	Call Force.			
76	Charles A. Sharon.....	Ladderman	56	37 Pine street.
91	Lincoln E. Wheeler.. ...	"	61	16 Columbia street.
120	Frederick Quenandon...	"	32	562 Franklin street.
84	William J. Heron, Jr....	"	28	11 Douglass street.

FIRES AND ALARMS.

From December 1, 1903, to December 1, 1904.

DECEMBER.

Friday, Dec 4, 12.42 P.M. Box 78.

No. 96 Concord Avenue. Owned by Thomas Durnin as dwelling. Loss $50.00. Insurance, $3,500. Occupied by Thomas Durnin. Loss, $200. Insurance, $500. Originated in clothes closet. Cause, child and matches.

Friday, Dec. 4, 10.57 P. M. Box 64.

No. 19 Follen Street. Occupied by Prescott Evarts as dwelling. Loss, none. Cause, soot in chimney afire.

Sunday, Dec. 6, 5.50 A. M. Box 16.

No. 94 Broadway. Owned by G. H. Bird et al. Loss, $520. Insurance, $2,000. Occupied by H. J. Shaw as machinist. Loss, $710. Insurance, $8,500. Cause, supposed by spontaneous combustion.

Monday, Dec 7, 12.17 A. M. Box 32.

No. 266 Elm Street. Occupied by Elm Associates as clubroom. No loss. Cause, cigar-stub in sawdust.

Monday, Dec. 7, 8 A.M. Still.

No. 889 Main Street. Occupied by James McNamee as cement works. No loss. Cause, thawing out water-pipe.

Tuesday, Dec. 8, 4.39 P. M. Box 32.

No. 1046 Cambridge Street. Owned by Fanny Frankenstein. Loss, $15. Insurance, $3,000. Occupied by Max Goldenberg as dry goods. Loss, $120. Insurance, $4,500. Cause, gas jet in contact with goods in show window.

Thursday, Dec. 10, 3.35 P. M. Box 234.

No. 248 Prospect Street. Owned by J. W. Moore as stable. No loss. Cause, dropping lighted match into straw.

Sunday, Dec. 13, 3 A.M. Still.

Ninth Street. Cause, rubbish on dump burning and endangering fence.

Monday, Dec. 14, 10.10 A. M. Still.

No. 293 Concord Avenue. Occupied by Robert Beck as dwelling. No loss. Cause, soot in chimney afire.

Monday, Dec. 14, 7.51 P. M. Box 428.

No. 29 Hampshire Street. Occupied by Boston Woven Hose and Rubber Co. as brass foundry. No loss claimed. Cause, hot crucible igniting woodwork.

Friday, Dec. 18, 6.40 P. M. Still.

Foot of Otis Street. Cause, rubbish burning on dump.

Saturday, Dec. 19, 6.35 P. M. Still.

Huron Avenue. Cause, boys burning grass and endangering fence.

Tuesday, Dec. 22, 12.24 A. M. Box 26.

No. 798 Main Street. Owned by Dow estate. Loss, $875. Insurance, $8,500. Occupied by Jeremiah Kelley as furniture store. Loss, $35. Insurance, $500. Cause, supposed by the careless dropping of a lighted match.

Tuesday, Dec. 22, 8.42 P. M. Box 78.

No. 80 Concord Avenue. Occupied by Charles Lemchel as cobbler. No loss. Cause, hanging lamp taking fire.

Tuesday, Dec. 22, 10.40 P. M. Still.

No. 71 Appleton Street. Occupied by William Cook as dwelling. No fire. Cause, explosion of furnace in cellar.

Thursday, Dec. 24, 6.03 P. M. Box 78.

Corner of Huron Avenue and Garden Street Cause, grass burning and endangering fences.

Friday, Dec. 25, 7.06 P. M. Box 26.

No. 1 Clark Street Place. Occupied by John Fosberg as dwelling. Loss, trifling. Cause, breaking of a lighted oil lamp.

Friday, Dec. 25, 8.11 P. M. Box 72.

No. 23 Harvey Street. Occupied by P. J. Berube as grocery. Loss trifling. Cause, dropping of a lighted lamp

Saturday, Dec. 26, 2.16 A. M. Box 178.

No. 55 Stearns Street. Owned by Timothy Donovan as stable. Loss, $132. Insurance, $500. Occupied by Timothy Donovan. Loss, $50. Insurance, $300. Cause, supposed by mice and matches.

Sunday, Dec. 27, 12.50 P. M. Box 74.

No. 116 Sherman Street. Occupied by Michael Pitts & Son as cobblers. Loss trifling. Cause, overheated stove pipe.

Sunday, Dec. 27, 2.15 P. M. Still.

No. 11 Williams Street. Owned by Francis Tiffany as dwelling. No loss. Cause, soot in chimney afire.

Monday, Dec. 28, 3.23 P. M. Box 234.

No. 33 Tremont Street. Occupied by William F. Brown as dwelling. Loss trifling. Originated in a lounge. Cause, child and matches.

Tuesday, Dec. 29, 11.25 A. M. Still.

No. 182 Upland Road. Owned by J. H. Niles as dwelling. No loss. Cause, soot in chimney afire.

JANUARY.

Saturday, Jan. 2, 9.05 A. M. Still.

No. 138 Tremont Street. Owned by J. H. Keenan as dwelling Loss trifling. Cause, thawing out water pipe.

Saturday, Jan. 2, 8.35 P. M. Box 178.

No. 272-275 Walden Street. Owned by M. T. Morse. Loss, $?50. Insurance, $700. Occupied by Paul Morse as dwelling. Loss, $50. Insurance, $300. Occupied by John Lussier as dwelling. Loss, $200. Insurance, $500 Cause, overheated stove.

Tuesday, Jan. 5, 8.45 A. M. Box 65.

No 20 Shepard Street. Occupied by L. L. Shackford as dwelling. Loss, trifling. Cause, mop hanging near furnace in cellar taking fire.

Tuesday, Jan. 5, 10 P. M. Still.

No. 55 Broadway. Occupied by James Rice as dwelling. Loss, trifling. Cause, thawing out water pipe.

Wednesday, Jan. 6, 9.10 A. M. Box 74.

No. 39 Bolton Street Occupied by William Burns as dwelling. Loss, trifling. Cause, thawing out water pipes.

Thursday, Jan. 7, 6.53 P. M. Still.

No. 3 Pleasant Place. Occupied by Henry Smith as dwelling Loss, trifling. Cause, oil heater taking fire.

Friday, Jan. 8, 6.30 P. M. Box 149.

No. 29 Magnolia Avenue Owned by Nora Daly. Loss, $40. Insurance, $3,000. Occupied by S. B. Burrill as dwelling. Loss, $42. Insurance, $1,000. Originated in a cot bed. Cause, unknown.

Saturday, Jan. 9, 10.20 A. M. Box 8.

No 20 Thorndike Street. Owned by H. M. Sawyer & Son. Loss, $433. Insurance, $433. Occupied by H M. Sawyer & Son as oil clothes manufactory. Loss, $280. Insurance, $280. Cause, over-heated drying-room.

Saturday, Jan. 9, 7.40 P.M. Box 13.

No. 13 Fourth Street. Occupied by Joseph Sheppick as dwelling. Loss, trifling. Originated in a lounge. Cause, dropping of a lighted match.

Monday, Jan. 11, 4.35 P. M. Box 25.

No. 326 Massachusetts Avenue. Owned by Mary E. Mitchell. Loss, $75, Insurance, $1,500. Occupied by W. H. Glock as dwelling. Loss, $338. Insurance. $1,000. Originated in a Christmas tree. Cause, supposed by stepping on and igniting a match.

Tuesday, Jan. 12, 12.35 A. M Box 65.

No. 2 Rutland Street. Owned by Charles Moore. Loss, $1,256. Insurance, $4,000. Occupied by Charles Moore as dwelling. Loss, $250. No insurance. Originated in L around the chimney. Cause, supposed by mice and matches.

Tuesday, Jan. 12, 11.30 A. M. Box 428.

No. 29 Hampshire Street. Owned and occupied by Boston Woven Hose and Rubber Co. as brass foundry. Loss, trifling. Cause, hot crucible igniting woodwork.

Wednesday, Jan. 13, 3.46 A. M. Box 73.

No. 2 Jackson Street. Owned by Bridget McCall Loss, $808. Insurance, $1,500. Occupied by James Elliott et al, as dwelling. Loss, trifling. Cause, defective chimney.

Wednesday, Jan. 13, 8.15 A. M. Still.

No. 255 Cambridge Street. Occupied by J. J. Long as plumber. No loss. Cause, ignition of naphtha.

Friday, Jan. 15, 6.15 P. M. Box 112.

North Street. Occupied by Boston Elevated Railway Co as store room. Loss, trifling. Cause, salamander stove igniting floor.

Friday, Jan. 15, 8.01 P. M. Box 12.

No. 208 Bridge Street. Occupied by John Lombard as dwelling. Loss, trifling. Originated in a lounge. Cause, smoking.

Saturday, Jan. 16, 9.29 P. M. Box 32.

No. 1016 Cambridge Street. Occupied by Jacob Beck as tailor. Loss, trifling. Cause, pair of pants in contact with gas jet.

Saturday, Jan. 16, 2.02 P. M. Box 29.

No 45 Bristol Street Owned by Maria Cummiskey. Loss, $12 Insurance. $3,250. Occupied by Samuel Kissloff as dwelling Loss, $96. Insurance, $2,000. Originated in a lounge. Cause, children and matches.

Tuesday, Jan. 19, 4.10 P. M Still.

No. 95 Winter Street. Occupied by David Clancy as dwelling. Loss, trifling. Cause, thawing out water-pipe.

Tuesday, Jan. 19, 4.35 P. M. Box 9.

No. 56 Cambridge Street. Owned by Elliot Savings Bank. Loss, $15. Insurance, $6,000. Occupied by Patrick Shaw as dwelling. No loss. Cause, overturning of an oil stove.

Wednesday, Jan. 20, 4.50 P. M. Still.

No. 66 Harvard Street. Occupied by H. B. Curtis as dwelling. No loss. Cause, thawing out water pipe.

Thursday, Jan. 21, 9.36 P. M. Box 131.

No. 750–752 Cambridge Street. Owned by W. B. Sohier. Loss, $671. Insurance, $9,000. Occupied by Jacob Kruperstein as tailor. Loss, $500. Insurance, $800. Cause, supposed of incendiary origin.

No. 752. Occupied by L. E. Billings as variety store. Loss, $137. Insurance, $400. Cause, exposure.

Sunday, Jan. 24, 8 A. M. Box 48.

No. 192 Hampshire Street. Owned by J. A. Sweeney. Loss, $59. Insurance, $1,500 Occupied by J. A. Sweeney as grocery. Loss, $50. Insurance, $200. Originated in barrel of charcoal. Cause, unknown.

Monday, Jan. 25, 3.42 A. M. Box 48.

No. 1370 Cambridge Street. Owned by M. G. Waitt. Loss, $225. Insurance, $12,000. Occupied by Morris O'Donnell as apothecary. Loss, $1,500. Insurance, $3,500. Originated in rubbish in the cellar. Cause, supposed by ignition of oiled rags.

Wednesday, Jan. 27, 2.21 P. M. Box 26.

No. 10 Clark Street. Owned by Elizabeth Phelan. Loss, $265. Insurance, $5,000. Occupied by Elizabeth Phelan as dwelling. Loss, trifling. Cause, overheated stove pipe.

Saturday, Jan. 30, 10.50 A. M. Box 32.

No. 1043 Cambridge Street Owned by Heffernan Brothers as dwelling. Loss, $30. Insurance, $5,000. Cause, thawing out water pipe.

Saturday, Jan. 30, 9.30 P. M. Still.

No. 9 Hilliard Street. Owned by E. M. Fuller. No loss. Cause, drying plastering.

Sunday, Jan. 31, 8.45 A. M. Still.

No. 9 Mercer Circle. Occupied by Edgar Pierce as dwelling. No loss. Cause, soot in chimney afire.

FEBRUARY.

Tuesday, Feb. 2, 8 30 A. M. Still.

No. 102 Mt. Auburn Street. Owned by Delaney & O'Hara. Loss, trifling. Occupied by Fannie Bolls as dwelling. Loss, $40. Insurance, $2,500. Cause, overheated stove.

Wednesday, Feb. 3, 12 16 A M. Box 59.

No 33 Boylston Street. Owned by William Reed estate. Loss, $. Insurance, $. Occupied by J J. Hawks as harness maker. Loss, $410. Insurance, $1,000. Cause, unknown.

Wednesday, Feb. 3, 10.12 A. M. Still.

No. 43 Blackstone Street. Owned by John Lennon estate as dwelling. Loss, $45. Insurance, $1,800. Originated on the roof. Cause, sparks from a chimney.

Monday, Feb. 8, 12.25 A. M. Box 15.

No. 254 Vine Street. Owned by Louis Furhman. Loss, $385. Insurance, $800. Occupied by Patrick Reardon. No loss. Originated in a partition on first floor. Cause, supposed by mice and matches.

Tuesday, Feb. 9, 7.35 P. M. Still.

No. 96 Winthrop Street. Owned by G M. Taylor. Loss, $15. Insurance, $3,000. Occupied by J. T. McNamee as dwelling. Loss, $75. Insurance, $1,000. Originated on third floor. Cause, oil stove taking fire.

Wednesday, Feb. 10, 2.14 A. M. Box 271.

No. 2370 Massachusetts Avenue Owned and occupied by Alexander Mason as lunch car. Loss, $200. Insurance, $300. Cause, supposed from overheated stove.

Wednesday, Feb. 10, 3.27 P. M. Box 31.

No. 20 Harding Street. Owned by E. M. Tracy as dwelling. Loss, $70. Insurance, $2,000 Cause, overheated stove pipe.

Sunday, Feb. 14, 12.47 A. M. Box 32.

No. 508 Winsor Street. Occupied by Norton Associates as clubroom. No loss. Originated in a closet. Cause, unknown.

Wednesday, Feb. 17, 7 30 A. M. Still.

No. 156 Brattle Street. Occupied by S. H. Scudder as dwelling. No loss. Cause, soot in chimney afire.

Wednesday, Feb. 17, 9.30 P. M. Still.

No 133 Munroe Street. Owned by P. A. Gallaghan as dwelling. No loss. Cause, soot in chimney afire.

Thursday, Feb. 18, 12.31 A. M. Box 51.

No. 54 Ellery Street Owned by White estate. Loss, $250. Insurance, $800. Occupied by W. F. Cunningham as stable. Loss, $220. Insurance, $2,400. Originated in a stall. Cause, unknown.

Thursday, Feb. 18, 8 A. M. Still.

No. 62 Brattle Street. Occupied by S. C. Clifford as dwelling. No loss. Cause, soot in chimney afire.

Thursday, Feb. 18, 8 20 A. M. Still.

No. 57 Lake View Avenue. Occupied by Charles Wolcott as dwelling. No loss. Originated in a rag in a closet. Cause, unknown.

Thursday, Feb. 18, 4.01 P. M. Box 72.

No. 26 Reed Street. Owned by Edward Gilman estate as dwelling. No loss. Originated in the cellar. Cause, spark dropping from open chimney flue.

Sunday, Feb. 21, 8.18 P. M. Box 178.

No. 252 Walden Street. Occupied by D. J. Marques as dwelling. Loss, trifling. Cause, overturning of a lighted lamp.

Wednesday, Feb. 24, 8.13 P. M. Box 59.

College Yard, (Weld Hall.) Occupied by J. L. Schwartz as dormitory. Loss, trifling. Originated in a lounge. Cause, cigarette smoker.

Thursday, Feb 25, 10.40 P. M. Box 431.

No. 97 Crescent Street. Owned by A. H. Hews & Co., as store house. Loss, $36. Insurance, $5,500. Cause, set afire by boys.

Friday, Feb. 26, 12 M. Box 17.

No. 70 Washington Street. Owned by G. M. Rogers estate. No loss. Cause, thawing out water pipe.

Saturday, Feb. 27, 11.20 A. M. Box 178.

No. 23 Winslow Street. Occupied by William Talbot et al, as dwellings. No loss. Cause, soot in chimney afire.

Saturday, Feb. 27, 11.42 A. M. Box 175.

No. 101 Richdale Avenue. Occupied by J. A. Sampson as dwelling. Loss, trifling. Originated in a lounge. Cause, sparks from a stove.

Sunday, Feb. 28, 3.16 A. M. Box 41.

No. Rear 35 Somerset Street. Owned by John Spiller. Loss, $250. Insurance, $250. Occupied by John Spiller as stable. Loss, $250. Insurance, $250. No. 35. Owned by E. C. Bates as dwelling. Loss, $168. Insurance, $1,000. Cause, exposure. No. 62 Prince Street. Owned by David Govan as dwelling. Loss, $50. Insurance, $1,000. Cause, exposure. The fire originated in the stable. Cause, unknown.

MARCH.

Tuesday, March 1, 9.03 A. M. Box 12.

No. 200 Bridge Street. Owned by W. F. Ross as unoccupied factory. No loss. Originated in the basement. Cause, thawing out water pipe.

Wednesday, March 2, 8.25 A. M. Box 41.

No. 14 Somerset Street. Owned by Bradford Stockton as dwelling. No loss. Cause, soot in chimney afire.

Sunday, March 6, 9.40 A. M. Still.

No. 732 Main Street. An old, unused building of no value. Cause, set afire by boys.

Monday, March 7, 9.40 P. M. Still.

No. 1 Harvard Place. Occupied by James Dwaney as dwelling. Loss, trifling. Cause, upsetting of a lighted lamp.

Tuesday, March 8, 7.15 P. M. Box 52.

No. 1010 Massachusetts Avenue Owned by A. W. Strauss as dwelling. Loss, $139. Insurance, $65,000. Occupied by C. E. Sweet as dwelling. Loss, $100. Insurance, $1,000. Originated in third floor. Cause, supposed by electric wires.

Saturday, March 12, 2.35 P M. Still.

No. 1299 Cambridge Street. Owned by James Sadgeburg. Loss, $40. Insurance, $2,000. Occupied by Patrick Friel as dwelling. Loss, $25. No insurance. Originated in a curtain. Cause, child and matches.

Saturday, March 12, 6.50 P. M. Box 17.

No. 545 Main Street. Owned by F. W. Rogers, trustee, as dwelling. No loss. Cause, soot in chimney afire.

Sunday, March 13, 2.50 P. M. Still.

No. 12 Rindge Avenue. Owned by A. E Lothrop. Loss, $225. Insurance, $7,000. Occupied by A. E. Lothrop as dwelling. Loss, trifling. Originated in stove cloths Cause, spontaneous combustion.

Tuesday, March 15, 11.58 A. M. Box 32.

No. 127 Willow Street. Occupied by F. W. Powers as dwelling. Loss, trifling. Originated in a bed on third floor. Cause, child and matches.

Wednesday, March 16, 3 30 P. M. Still.

No. 27 Everett Street. Owned by F. P. Fish. Loss, $150. Insurance, $35,000. Occupied by J S. Pray as dwelling. Loss, trifling. Originated in bathroom. Cause, towels ignited by gas stove.

Wednesday, March 16, 4.49 P. M. Box 15.

No. 176 Fifth Street. Owned by Tobias Libby. Loss, $1,656. Insurance, $5,000. Occupied by Tobias Libby as stable. Loss, $991. Insurance, $15,000. Occupied by C. H. Mulliken as stable. Loss, $83. Insurance, $2,000. Originated in hay loft. Cause, supposed by electric wires.

Wednesday, March 16, 9.11 P. M. Box 175.

No. 62 Walden Street. Occupied by M. J. Adams as dwelling. Loss, trifling Cause, pan of oil on stove igniting.

Friday, March 18, 9.16 P. M. Box 27.

No. 246 Broadway. Owned by G. D. Spinney estate. Loss, $35. Insurance, $2,000. Occupied by Mary Holden as grocery. Loss, $40. Insurance, $500. Cause, dropping lighted match into paper.

Sunday, March 20, 3.12 P. M. Box 113.

No. 5 Lowland Avenue Owned by Joseph Silva. Loss, $400. Insurance, $400. Occupied by Joseph Silva et al as stable. Loss, $150. Insurance, $250. Owned by Joseph Silva as dwelling Loss, $120. Insurance, $1,000. Originated in the stable. Cause, unknown.

Thursday, March 24, 7.30 P. M. Still.

Ninth Street. Cause, rubbish burning on dump.

Friday, March 25, 3.50 P. M. Box 52.

Massachusetts Avenue. Cause, automobile taking fire. Alarm needless.

Saturday, March 26, 1 50 A. M. Box 63.

Brattle Street. In yard of Episcopal Theological School. Originated in old packing boxes. Cause, set afire. Alarm needless.

Saturday, March 26, 10 A. M. Still.

No. 148 Fremont Street. Owned by James Irwin as stable. Loss, trifling. Cause, set afire by boys.

Saturday, March 26, 8.18 P. M. Box 31.

No. 31 Harding Street. Owned by P. H. Ahearn as dwelling. No loss. Cause, soot in chimney afire.

Sunday, March 27, 7.08 P. M. Box 32.

Foot of Winsor Street. Cause, old paper burning.

Monday, March 28, 7.14 P. M. Box 35.

No. 26 Worcester Street. Owned by S. H. Ordway. Loss, $265. Insurance, $1,500. Occupied by Samuel Thornton as dwelling. Loss, $30. No insurance. Cause, an explosion of an oil lamp.

Tuesday, March 29, 3.41 P. M. Box 54.

Cambridge Street. (Memorial Hall) Owned by Harvard University. Loss, trifling. Cause, dust in ventilator taking fire.

Wednesday, March 30, 2.55 P. M. Box 162.

Longfellow Park. Cause, grass burning and endangering fence.

APRIL.

Saturday, April 2, 4 36 P. M. Box 56.

Francis Avenue. Cause, burning grass.

Tuesday, April 5, 10.43 P. M. Box 53.

No. 10 Linden Street. Owned by Randolph Trust Co. as tool-house and dormitory. Loss, $100. Insurance, $5,000. Originated in the tool-house. Cause, incendiary.

Friday, April 8, 4.52 P. M. Still.

Channing Street. Cause, grass in vacant lot burning and endangering fence.

Monday, April 11, 8.09–8.11. Boxes 29 and 27.

No. 267 Winsor Street. Owned by C. A. Ricker. Loss, $840. Insurance, $5,000. Occupied by F. R Blessington as dwelling. Loss, $203. Insurance, $500. Originated in a clothes closet. Cause, unknown.

Wednesday, April 13, 9.46 A. M. Box 23.

No. 2 Williams Street. Occupied by G. D. Phillips as dwelling. Cause, smoke mistaken for fire.

Thursday, April 14, 8.56 A. M. Box 17.

No. 589 Main Street. Occupied by Arthur Blais as dwelling. Loss trifling. Originated in hanging clothes. Cause, child and matches.

Saturday, April 16, 11.31 A. M. Box 148.

No. 16 Leonard Avenue. Owned by E. L. Cole. Loss, $25. Insurance, $4,000. Occupied by J. W. Bradley as dwelling. Loss, $50. Insurance, $1,000. Originated in child's crib. Cause, child and matches.

Sunday, April 17, 7.10 P. M. Still.

Ninth Street. Freight yard. Owned by Boston & Albany R. R. Co. as freight car. Loss, trifling. Occupied by Blany, Brown Co. as hay. Loss, $100. Insurance, $100. Cause, set afire by boys.

Sunday, April 17, 10 56 P. M. Box 15.

No. 100 Fourth Street. Occupied by Thomas Shinkwin as dwelling. Loss, trifling. Cause, table cloth afire.

Monday, April 18, 9.40 A. M. Still.

Occupied by A. C. Potter as dwelling. Loss, trifling. Cause, hot ashes in wooden box

Tuesday, April 19, 1 30 A. M. Box 215.

No. 103 Seventh Street. Owned by Charles Ellis Loss, $488. Insurance, $1,500. Occupied by Catherine Lynch as dwelling. Loss, $50. No insurance. Cause, breaking of lighted lamp.

No. 162 Thorndike Street. Owned by Charles Ellis as dwelling. Loss, $50. Insurance, $2,000. Cause, exposure.

Tuesday, April 19, 11.53 A M. Boxes 9 and 18.

No. 34 Cambridge Street. Owned by I. G. Felt. Loss, $50. Insurance, $600. Occupied by Edmund Dagle as carriage painter. Loss, $40. Insurance, $1,000. Originated on roof. Cause, sparks.

Tuesday, April 19, 9 30 P. M. Still.

No. 77 Broadway. Originated in a barrel in the yard. No loss. Cause, hot ashes.

Wednesday, April 20, 6.14 A. M. Box 234.

No. 16 Antrim Street. Occupied by Julius Sevo as dwelling. Loss, trifling. Originated in a clothes closet. Cause, lighted cigarette.

Wednesday, April 20, 9.53 A. M. Still.

No. 24 Mt. Vernon Street. Occupied by H. G. Hichborn as dwelling. No loss. Cause, soot in chimney afire

Saturday, April 23, 5.47 A. M. Box 9.

No. 135 Bridge Street. Owned by J. J. Guerin. Loss, $400. Insurance, $600. Occupied by J. J. Guerin as dwelling. Loss, $300. No insurance. Cause, defective chimney.

Saturday, April 23, 10.07 P. M. Box 43.

No. 5 Fallon Place. Occupied by E. J. Fallon as dwelling. No loss. Cause, breaking of lighted oil lamp.

Sunday, April 24, 8.03 P. M. Box 425.

No. 129 Franklin Street. Owned and occupied by National Biscuit Co. as bakery. No loss claimed. Originated in oil room on fifth floor. Cause, spontaneous combustion.

Monday, April 25, 5.27 P. M. Box 26.

No. 6 Clark Street. Occupied as dwelling. Cause, smoke mistaken for fire.

Tuesday, April 26, 3.45 P. M. Still.

No. 707 Cambridge Street. Owned by G. F. McKelleget. Loss, $47. Insurance, $10,000 Occupied by Robert McQue as dwelling. Loss, trifling. Cause, clothes near stove taking fire.

Wednesday, April 27, 12.18 P. M. Box 89.

No. 633 Concord Avenue. Occupied by Edmund Dziengielewski as dwelling. No loss. Originated in the cellar in paper sheathing. Cause, supposed set afire by boys.

Wednesday, April 27, 12 53 A. M. Box 89.

No. 633 Concord Avenue. Occupied by Edmund Dziengielewski as dwelling No loss. Originated in the cellar in paper sheathing. Cause, supposed set afire by boys.

Wednesday, April 27, 7.14 P. M. Box 175.

No. 57–59 Walden Street. Owned by Edward Gately. Loss, $290. Insurance, $2,000. Occupied by Leonard Day as grocer. Loss, $1,050. Insurance, $1,500. Cause, supposed of incendiary origin.

Friday, April 29, 6.01 P M. Box 9.

No 34 Cambridge Street. Owned by I. G. Felt. Loss, $25. Insurance, $600. Occupied by Edmund Dagle as horseshoer. Loss, $50. Insurance, $1,000. Occupied by J. D. McDonald as wheelwright. Loss, $30. Insurance, $300. Originated in basement. Cause, hot coals from forge.

MAY.

Sunday, May 1, 10.11 P. M. Box 115.

No. 188 First Street. Owned and occupied by Adolph Sommes as viscol manufactory. Loss, $200. No insurance. Cause, boiling oil and resin taking fire.

Monday, May 2, 8.58 A. M. Box 135.

No. 44 Bigelow Street. Owned by J. M. Robbins. No loss. Cause, boiling tar on the roof taking fire.

Monday, May 2, 9.06 P. M. Box 84.

No. 171 Lake View Avenue. Owned by H. B. Butler. Loss, $890. Insurance, $3,000. Occupied by H. B. Butler as dwelling. Loss, $250. No insurance. Originated in the attic. Cause, unknown.

Tuesday, May 3, 1.47 P. M. Box 35.

No 122 Prospect Street. Owned by Jeremiah Green as dwelling. Loss, trifling. Originated on the roof. Cause, sparks.

Wednesday, May 4, 12.28 A. M. Box 121.

Brookline Street. Cause, false alarm given by some malicious person.

Thursday, May 5, 7.55 P M. Box 46.

No. 493 Green Street. Owned by L. A. Pryor as unoccupied dwelling. Loss, trifling. Cause, dropping of a lighted match into rubbish.

Friday, May 6. 2.31–2 33. Boxes 422–116.

No. 1 Baldwin Place. Owned by Bay State Fuel Co. Loss, $47. Insurance, $20,000. Occupied by several parties as dwelling. No loss. Originated on the roof. Cause, sparks.

Friday, May 6, 6.21 P. M. Box 65.

Massachusetts Avenue. Cause, automobile afire. Alarm needless.

Friday, May 6, 11.36 P. M. Box 454.

College yard. Cause, false alarm given by some malicious person.

Sunday, May 8, 3.52 A. M. Box 413.

No. 125 Binney Street. Owned and occupied by Alden Speare's Sons Co. as stable. No loss. Originated on outside of building. Cause, unknown.

Friday, May 13, 12.48 A. M. Box 152.

Bow Street. Cause, false alarm given by some malicious person.

Friday, May 13, 10.04 A. M. Box 17.

No. 38 Hastings Street. Owned by Peter Buslewetts. Loss, $61. Insurance, $750. Occupied by Frank Martin as dwelling. Loss, $165. Insurance, $500. Originated in clothing hanging near stove. Cause, sparks from stove.

Friday, May 13, 7.13 P. M. Box 47.

No. 72 Inman Street. Occupied by Albion Chipman as dwelling. Loss, trifling. Cause, lighted match igniting curtain.

Sunday, May 15, 6.41 P. M. Box 21.

No. 627 Putnam Avenue. Owned by E. A. Brock as unoccupied dwelling. No loss. Cause, set afire by boys.

Monday, May 16, 5.18 P. M. Box 37.

No. 200 Auburn Street. Owned by George Bates. Loss, $75. Insurance, $2,500 Occupied by Clarence Webber as dwelling. No loss. Cause, defective gas pipe.

Monday, May 16, 7.53 P. M. Box 35.

No. 31 Elm Street. Occupied by Broadway Provision Co. Loss, trifling. Cause, pot of meat on stove taking fire.

Friday, May 20, 3.22 A. M. Box 152.

Bow Street. Cause, false alarm given by some malicious person.

Saturday, May 21, 10.10 P. M. Box 427.

No. 201 Broadway. Owned by Eric Ericsson. Loss, $300. No insurance. Occupied by Samuel Andleman as junk shop. Loss, $150. No insurance. Cause, supposed by spontaneous combustion.

Wednesday, May 25, 8.32 P. M. Box 115.

No. 14 Conlon Court. Owned by S. A. Conlon. Loss, $125. Insurance, $2,000. Occupied by Peter Foley as dwelling. No loss. Cause, defective chimney.

Thursday, May 26, 10.30–10.34 P. M. Box 427.

No. 79 Portland Street. Owned by Cambridge Paper Box Co. Loss, $4,467. Insurance, $9,200. Occupied by Cambridge Paper Box Co , as paper box manufactory. Loss, $7,319. Insurance, $15,000. Cause, unknown.

No. 6 Davis Street Owned by George McCulloch. Loss, $215. Insurance, $1,700. Occupied by George McCulloch as dwelling Loss, $17. Insurance, $700. Occupied by J. T. Elliott as dwelling. Loss, $90. Insurance, $500. Cause, exposure.

Friday, May 27, 7 21 P. M. Box 26.

No. 20 Cherry Street. Owned by B. P. Clark. Loss, $65. Insurance, $1,500. Occupied by George Clement as dwelling. No loss. Originated in the attic. Cause, child and matches.

Friday, May 27. 9.22 P. M. Box 79.

Brattle Street. Cause, false alarm given by some malicious person.

Saturday, May 28, 2.23 P. M. Box 17.

No. 76 Harvard Street. Owned by Vincent Blanchard. Loss, $25. Insurance, $1,500. Occupied by L. J Stead as dwelling. No loss. Originated in clothing in a box on third floor. Cause, unknown.

Sunday, May 29, 4 49 P. M. Box 15.

No. 207 Charles Street. Owned and occupied by Mary Hinds as dwelling. Loss, trifling. Originated in a lounge Cause, unknown.

JUNE.

Wednesday, June 1, 9.09 A. M. Still.

No. 24 Marion Street. Occupied by several families as dwellings. Loss, trifling. Originated in kindling wood in the cellar.

Wednesday, June 1, 10.50 P. M Box 14.

No. 158½ Otis Street. Occupied by J. J. Creeden as dwelling. No loss. Cause, fumigating room.

Friday, June 3, 2.18 A. M. Still.

Brattle Street. Cause, automobile afire.

Friday, June 3, 10.56 P M. Box 165.

No. 1686 Massachusetts Avenue. Owned by Max Backman. Loss, $553. Insurance, $5,000. Occupied by Joseph Millin as dwelling. Loss, $195. Insurance, $1,500. Originated in an old excelsior mattress in the attic. Cause, defective chimney.

Sunday, June 5, 2 05 A. M. Box 427.

No. 189 Broadway. Owned by St. Stephens Baptist Church Society. Loss, $40. Insurance, $500. Occupied by T. H. Warren as stable. Loss, $100. No insurance. Occupied by George Weston as stable. Loss, $35. No insurance. Cause, unknown.

Sunday, June 5, 6.20 A. M. Still.

No. 184 Bridge Street. Occupied by Mary Murphy as dwelling. No loss. Cause, rags in chimney flue taking fire

Sunday, June 5, 8.30 P. M. Still.

No. 413 Main Street. Owned by P. C. Welch as dwelling. Loss, trifling. Originated on outside of building. Cause, set afire by boys.

Thursday, June 9, 9.10 P. M. Box 61.

No. 16 Eliot Street. Owned by University Associates. Loss, trifling. Occupied by M. A. Kendall as dwelling. Loss, $150. No insurance. Originated in clothes closet. Cause, supposed by mice and matches.

Friday, June 10, 1.29 P. M. Box 23.

No. 46 Brookline Street. Owned by M. A. Sutherland as dwelling. No loss. Originated in the basement. Cause, defective chimney.

Monday, June 13, 1.10 A. M. Box 32.

No. 1007 Cambridge Street. Owned and occupied by Camille White as storage of junk. No loss. Originated amongst rags in yard. Cause, unknown.

Tuesday, June 14, 8.04 P. M. Box 26.

Albany Street. Occupied by Charles River Park. Loss, trifling. Cause, fence afire.

Wednesday, June 15, 7.13 P. M. Box 24.

Albany Street. Occupied by Charles River Park. Loss trifling. Cause, fence afire.

Thursday, June 16, 10.02 P. M. Box 73.

Jackson Street. Cause, false alarm given by some malicious person.

Friday, June 17, 12.02 A. M. Box 24.

No. 202 Brookline Street. Owned by J. A. Furfey as mat manufactory. No loss. Cause, set afire by boys.

Friday, June 17, 12 49 A. M. Box 73.

No. 464 Rindge Avenue. Owned by Bridget McCall. Loss, $100. Insurance, $100. Occupied by Cleophas Lambert as shed. Loss, $150. No insurance. Cause, supposed of incendiary origin.

Friday, June 17, 1.44 A. M. Box 271.

No. 2418 Massachusetts Avenue. Owned by C. A. Mason as unoccupied building. Could not find any fire. Alarm needless.

Friday, June 17, 10.20 A. M. Still.

No 8 Pioneer Street. Owned by M. E. Peters. Loss, $35. Insurance, $11,000. Occupied by Stephen McFarland as dwelling. Loss, $117. Insurance, $500. Originated in a storeroom on first floor. Cause, unknown.

Friday, June 17, 5 35 P. M. Box 37.

Magazine Street. Occupied by Pilgrim Church Society. Cause, smoke mistaken for fire.

Friday, June 17, 8.07 P. M. Box 434.

No. 5 Potter Street. Owned by Michael Collins as dwelling. Loss, trifling. Originated on outside of building. Cause, firecrackers

Sunday, June 19, 5.45 P. M. Still.

No. 744 Massachusetts Avenue. Occupied by American Express Co. No loss. Originated under platform on outside of building. Cause, unknown.

Monday, June 20, 3.27 P. M. Box 24.

No. 22 Lopez Street. Owned by Mary Griffin as shed. No loss. Cause, children and matches.

Wednesday, June 22, 7.53 P. M. Box 139.

Pearl Street. Cause, false alarm given by some malicions person.

Wednesday, June 22, 8 50 P. M. Still.

No. 14 Eliot Street. Owned by M. J. Packard. Loss, $10. Insurance, $6,000. Occupied by M. J Packard as dwelling. Loss, $15. Insurance, $1,000. Cause, overturning of lighted lamp.

Thursday, June 23, 5.29 P. M. Box 26.

No. 25 Winsor Street. Owned by C. P. Keith. Loss, $870. Insurance, $1,000. Occupied by DeConde Manufacturing Co. Loss, $685. Insurance, $800. No. 27 Winsor Street. Occupied by S. E. Jeffries as stair-builder. Loss, $75. Insurance, $200. No. 10 Front Street. Occupied by E. G. Nelson as cabinet-maker. Loss, $250. Insurance, $300. Cause, ignition of gasolene in DeConde M'f'g Co.

Thursday, June 23, 11.45 P. M. Still.

Harvey Street. Owned by E. R Dix as lumber yard. Cause, rubbish burning.

Friday, June 24, 1.39 P. M. Box 92.

No. 74 Holworthy Street. Owned by J. J. McBride as shed. Loss, $78. No insurance. No. 78. Owned by E. H. Cunningham as stable. Loss, $1,000. Insurance, $1,000. Loss on contents, trifling. Cause, sparks from burning rubbish in vacant lot.

Friday, June 24, 2.15 P. M. Still.

Massachusetts Avenue. Owned by Boston & Maine Railroad as passenger station. Loss, trifling. Originated on the roof. Cause, sparks.

Friday, June 24, 8 39 P. M. Box 114.

No. 18 Lambert Street. Owned by Edwiner Millo. Loss, $34. Insurance, $3,500. Occupied by George Pennington as dwelling. Loss, $50 No insurance. Originated in a closet. Cause, unknown.

Saturday, June 25, 7.05 P. M. Box 178.

No. 237 Walden Street. Owned by Peter McCall as dwelling. Loss, trifling. Cause, struck by lightning.

Monday, June 27, 7.24 P. M. Box 431.

Raymond street. Fence and rubbish afire at City yard. Loss, trifling. Cause, set afire by boys.

Tuesday, June 28, 5 05 A. M. Box 153.

No. 4 DeWolfe Place. Owned by Arthur G. McArthur. Loss, $104. Insurance, $4,200. Occupied by Benjamin McArthur as dwelling. Loss, $300. Insurance, $1,000. Cause, child and matches.

Tuesday, June 28, 12.40 P. M. Still.

No. 69 Otis Street. Occupied by A. J. Green as dwelling. No loss. Cause, soot in chimney afire.

JULY.

Saturday, July 2, 2 P. M. Still.

Murray Street. Cause, rubbish burning on dump.

Sunday, July 3, 11.11 P. M. Box 25.

No. 476 Massachusetts Avenue. Occupied by L. W. Reycroft as apothecary. Cause, smoke mistaken for fire

Monday, July 4, 2.45 A. M. Box 92.

Holworthy Street. Occupied by City of Cambridge as portable engine. Loss, trifling. Originated in the housing over the boiler. Cause, set afire by boys.

Monday, July 4, 2.48-3 A. M. Box 71.

Nos. 3601–3603 Massachusetts Avenue. Owned by Henderson Brothers. Loss, $3,000. Insurance, $3,000. Occupied by Willow Athletic Association. Loss, trifling.

No. 2597. Owned by Henderson Brothers, Loss, $1,000. Insurance, $1,500. Occupied by F E. Bartlett as dwelling. Loss, trifling. Cause, incendiary.

Monday, July 4, 3.18 A. M. Box 162

Willard Street. Cause, bonfire in the street, set by boys.

Monday, July 4, 12.52 P. M. Box 62.

No. 14 Charles River Road. Owned by D. K. Dinsmore as dwelling. Loss, trifling. Originated on the roof. Cause, firecrackers.

Monday, July 4, 1.01 P. M. Box 17.

No. 105 Washington Street. Owned by Timothy Mahoney as dwelling. Loss, $150. Insurance, $2,000. Originated on outside of building in L. Cause, firecrackers.

Monday, July 4, 1 53 P. M. Box 8.

No. 86 First Street. Owned by J. T. Scully as dwelling. Loss, trifling. Originated on the roof. Cause, firecrackers.

Monday, July 4, 9.54 P. M. Box 34.

No. 310 Columbia Street. Owned by G. A. Cole as dwelling. Loss, trifling. Originated on the roof. Cause, firecrackers.

Monday, July 4, 10.57 P. M. Box 16.

No. 16 Harvard Street. Owned by Solomon Elkind as unoccupied dwelling. Loss, $415. Insurance, $1,500. Cause, incendiary.

Friday, July 8, 3-42 P. M. Box 443.

No. 30 Sands Street. Owned by E. J. Nesson as fence. Loss, trifling. Cause, set afire by boys.

Friday, July 8, 8.34 P. M. Box 24.

No. 104 Brookline Street. Owned by John Gustafson. Loss, $50. Insurance, $3,000. Occupied by G. T. Keith as dwelling Loss, $72. Insurance, $500. Originated in a closet on second floor. Cause, supposed by dropping a lighted match.

Saturday, July 9, 1.24 P. M. Still.

No. 169 Bridge Street. Occupied by Charles Fine as junk shop. Loss, trifling. Originated on roof. Cause, sparks.

Monday, July 11, 8.47 P. M. Box 134.

No. 165 Tremont Street. Owned by T. E. Cunningham. Loss, $10. Insurance, $4,600. Occupied by Alvah Anderson as dwelling. Loss, $20. Insurance, $400. Originated in a bed on first floor. Cause, smoking.

Saturday, July 16, 11.46 A. M. Box 35.

No. 305 Broadway. Owned by John Lynch. Loss, $135. Insurance, $6,000. Occupied by F. E. Elliott as dwelling. Loss, $150. No insurance. Originated in a clothes closet. Cause, supposed by dropping a lighted match.

Saturday, July 16, 5.48 P. M. Box 126.

Pine Street. Originated in a tree. Cause, set afire by boys.

Saturday, July 16, 8 20 P. M. Box 131.

No. 14 Marion Street. Occupied by J. N. Murphy as dwelling. No loss. Cause, dropping of a lighted lamp.

Friday, July 22, 10.02 P. M. Box 9.

No. 34 Cambridge Street. Owned by I. G Felt as blacksmith shop. No loss. Originated on roof of L. Cause, set afire by boys.

Monday, July 25, 9.33 P. M. Box 71.

No. 71 Yorktown Street. Owned by M. M Elliott. Loss, $150. Insurance, $1,200. Occupied by F. R. Townsend as dwelling. Loss, $500. Insurance, $1,000. Originated on first floor. Cause, explosion of lighted lamp.

Tuesday, July 26, 8.05 P. M. Still.

Albany Street. Occupied by Charles River Park. Cause, fence afire, set by boys.

Tuesday, July 26, 9.17 P. M. Still.

Pacific Street. Occupied by Charles River Park. Cause fence afire, set by boys.

Friday, July 29, 11.04 P. M. Box 215.

Spring Street. Cause, false alarm given by malicious person.

Saturday, July 30, 4 P.M. Still.

Putnam Avenue. Cause, grass afire, set by boys.

AUGUST.

Monday, Aug. 1, 10.57 A. M. Box 15.

No. 238 Charles Street. Owned by Annie T. Ross. Loss, $53. Insurance, $1,200. Occupied by A. T. Ross as dwelling. Loss, $150. Insurance, $1,000. Originated in the basement kitchen. Cause, sparks from stove.

Tuesday, Aug 2, 5.03 P. M. Box 435.

No. 258 Norfolk Street. Owned by James Haley as dwelling. Cause, smoke mistaken for fire.

Sunday, Aug. 7, 8.47 P. M. Box 37.

No. 7 Kinniard Street. Owned by C. E. Whipple. Loss, $90. Insurance, $4,000. Occupied by Ellen Dickson as dwelling. Cause, dropping of lighted lamp on stairs,

Wednesday, Aug. 10, 3.13–3.15. Boxes 19–16.

No. rear 36 Harvard Street. Owned by John Keough estate. Loss, $300. Insurance, $300 Occupied by John Kernan as stable. Loss, trifling. Cause, supposed set by boys.

No. 36 Harvard street. Owned by John Keough estate as dwelling. Loss, $75. Insurance, $3,000. Cause, exposure.

Thursday, Aug. 11, 5.34 A. M. Box 17.

No. 78 Washington Street. Occupied by Abraham Goldenburg as dwelling. No loss. Cause, dropping of a lighted match.

Thursday, Aug. 11, 9.35 P. M. Still.

No. 746 Main Street. Occupied by Standard Turning Works as wood workers. No loss. Originated in the boiler-room. Cause, sparks.

Friday, Aug. 12, 7.28 A. M. Box 93.

No. 3 Cushing Avenue. Occupied by R. J. McCarthy as dwelling. Loss, trifling. Originated in the attic. Cause, child and matches.

Friday, Aug. 12, 3.40 P M. Box 27.

No. 237 Broadway. Owned by H N. Tilton. Loss, $67. Insurance, $1,000. Occupied by F. P. Elliott as dwelling. Loss, $60. Insurance, $600. Originated in a bedroom. Cause, supposed by mice and matches.

Saturday, Aug. 13, 12.31 P M. Box 35.

No. 130 Prospect Street. Occupied as gymnasium. Cause, smoke mistaken for fire.

Sunday, Aug. 14, 3.37 P. M Box 178.

No. 41 Sherman Street. Occupied by Justin Trambly as dwelling. No loss. Cause, sparks from tobacco pipe.

Tuesday, Aug. 16, 1.45 A. M. Box 32.

No. 997 Cambridge Street. Owned by A. F. Sortwell. Loss, $1,448. Insurance, $3,500. Occupied by Louis Furhman as fruit store. Loss, $400. Insurance, $500. Cause, supposed of incendiary origin. No. 991. Occupied by Morris Silverman as shoe store. Loss, $500. No insurance. Cause, exposure.

Tuesday, Aug. 16, 12.24 P. M. Box 35.

No. 267 Broadway. Owned by E. H. Harding estate. Loss, $70. Insurance, $2,000. Occupied by Chester Lothian as dwelling. No loss. Originated at head of cellar stairs. Cause, supposed set afire by boys.

Thursday, Aug. 18, 10.06 A. M. Box 41.

No. 12 Somerset Street. Owned by Heirs of Hugh Furfey. Loss, $25. Insurance, $900. Occupied by A. M. Furfey as dwelling. Loss, trifling. Cause, oil stove taking fire.

Thursday, Aug. 18, 1.57 P. M. Box 157.

No. 10 Howland Street. Owned and occupied by J. W. O'Brien as dwelling. Loss, $40. Insurance, $2,500. Originated on the roof. Cause, ignited by a torch.

Saturday, Aug. 20, 8 A. M. Still.

No. 227 Cambridge Street. Owned by G. W. Dearborn as grocery. Loss, $30. Insurance, $8,000. Cause, electric cable grounding through iron fire escape on the building.

Saturday, Aug. 20, 12.19 P. M. Box 178.

No. 290 Walden Street. Owned by J. E. Bonin. Loss, $922. Insurance, $2,000. Occupied by J. E. Bonin as wheelwright. Loss, $800. Insurance, $1,000. Originated in wood shop. Cause, unknown.

Sunday, Aug. 21, 7.25 P. M. Box 26.

No. 41 Clark Street. Owned by A. B. Hall. Loss, $25. Insurance, $1,000. Occupied by Sarah Collins as dwelling. Loss, $50. No insurance. Originated in a couch in bedroom. Cause, unknown.

Monday, Aug. 22, 6.45 A. M. Still.

No. 646 Cambridge Street. Owned by Charles Linehan estate. Occupied as furniture store. No loss. Cause, defective chimney.

Monday, Aug. 22, 7 P. M. Still.

No. 644 Cambridge Street. Occupied by Michael O'Hara as poolroom. No loss. Cause, lighted lamp taking fire.

Tuesday, Aug. 23, 7.31 P. M. Box 9.

Cause, fire in Boston (Charlestown District).

Thursday, Aug. 25, 12 40 P. M. Still.

No. 12 Cogswell Avenue. Owned by J. S. Daniels. Loss, trifling. Occupied by B. C. Brown as dwelling. Loss, $95. Insurance, $700. Originated in a bedroom. Cause, supposed by mice and matches.

Thursday, Aug. 25, 3.45 P. M. Still.

No. 40 Plymouth Street. Owned by H. O. Marcy as shed. No loss. Cause, set afire by boys.

Thursday, Aug. 25, 4.35 P. M. Still.

No. 1 Marcella Place. Owned by Tobin, Crowell & Mahoney. Loss, $32. Insurance, $3,500. Occupied by Honora Cavanagh as dwelling. Loss, $100. Insurance, $500. Originated in a clothes closet. Cause, unknown.

Friday, Aug. 26, 9.57 A. M. Box 35.

No. 33 Essex Street. Owned by A. A. Brown as dwelling. Loss, $25. Insurance, $3,500. Cause, curtain ignited by oil stove.

Friday, Aug. 26, 4 P. M. Still.

No. 36 Harvard Street. Owned by Keough estate. Loss, $35. Insurance, $2,500. Occupied by Cornelius Sheehan as dwelling. No loss. Cause, defective chimney.

SEPTEMBER.

Sunday, Sept. 4, 10.50 P. M. Box 145.

No. 596 Franklin Street. Occupied by M. J. Connolly as dwelling. Loss, trifling. Originated in a bedroom. Cause, supposed smoking in bed.

Tuesday, Sept. 6, 5.18 P. M. Box 74.

No. 78 Bolton Street. Owned by Annie Munion as dwelling. Loss, trifling. Originated on the roof. Cause, sparks.

Tuesday, Sept. 6, 6.24 P. M. Box 41.

No. 25 Andrew Street. Occupied by Bernard Richmond as dwelling. Cause, smoke mistaken for fire.

Thursday, Sept. 8, 4.24 P. M. Box 53.

No. 48 Winthrop Street. Owned by Robert Barron et al trustee. Loss, $100. Insurance, $4,000. Occupied by Harvard Southern Club. No loss. Originated on outside of building. Cause, set afire by boys.

Friday, September 9, 2.15 P. M. Still.

Albany Street. Occupied by Charles River Park. Cause, fence set afire by boys.

Tuesday, Sept. 13, 5.30 P. M. Still.

No. 100 Otis Street. Owned by Frederick McCarthy as dwelling. No loss. Cause, oil stove taking fire.

Tuesday, Sept. 13, 5.45 P. M. Still.

No. 16 Laurel Street. Owned by John Curley as dwelling. No loss. Cause, soot in chimney afire.

Wednesday, Sept. 14, 12 30 A. M. Box 14.

No. 13 Seventh Street. Occupied by A. G. Kane as dwelling. No loss. Cause, explosion of oil lamp.

Monday, Sept. 19, 2.45 P. M. Still.

No. 36 Cottage Street. Owned by C. W. Dows as dwelling. Loss, trifling. Cause, carelessness of plumbers.

Wednesday, Sept. 21, 2.15 P. M. Still.

No. 1306 Cambridge Street. Occupied by Cassie Cogswell as dwelling. Loss, trifling. Originated in rubbish in the cellar. Cause, children and matches.

Thursday, Sept. 22, 11.15 A. M. Box 87.

Vassal Lane. Owned and occupied by New England Brick Co., as boarding house. Loss, $40. Insurance, $1,000. Originated on the roof. Cause, sparks from chimney.

Friday, Sept. 23, 6.49 A. M Box 149.

No. 34 Magnolia Avenue. Occupied by George McKay as dwelling. Loss, trifling Originated in clothing. Cause, careless pipe smoker.

Friday, Sept. 23, 7.49 A. M. Box 435.

No. 329 Norfolk Street. Owned and occupied by D. H. Milliken as dwelling. No loss. Originated in basement. Cause, stepping on and igniting match.

Friday, Sept. 23, 11.29 P. M. Box 73.

No. 2 Jackson Street. Owned by Bridget McCall as dilapidated dwelling. No loss. Cause, incendiary.

Tuesday, Sept. 27, 8.13 P. M. Box 72.

No. 94 Reed Street. Occupied by Leon David as dwelling. No loss. Cause, overturning of lighted lamp

Tuesday, Sept. 27, 8.38 P. M. Box 41.

No. 12 Fairmont Street. Occupied by Roderick MacRae as dwelling. No loss Originated in ironing board. Cause, hot iron.

Wednesday, Sept. 28.

Jackson Street. Owned by H. N. Smith as unoccupied building. Loss, $500. Insurance, $500. Cause, incendiary.

Thursday, Sept. 29, 11.46 A. M. Box 58.

Massachusetts Avenue. Hastings Hall. Occupied as dormitory. No loss. Originated in the basement in packing material. Cause, supposed by careless smoking

OCTOBER.

Saturday, Oct. 1, 2.04 P. M. Box 215.

No. 354 Vine Street. Owned by N. J. O'Connell as dwelling. Loss, $35. Insurance, $750. Originated on the roof. Cause, sparks.

Tuesday, Oct. 4, 8.50 A. M. Still.

No. 1 Hampshire Place. Occupied by C. E. Burgess as dwelling. Loss, trifling. Cause, lighted match thrown into wood-box.

Tuesday, Oct. 4, 10.30 P. M. Box 152.

Massachusetts Avenue, corner Bow Street. Cause, false alarm given by some malicious person.

Wednesday, Oct 5, 2 54 P. M. Box 216.

West Boston Bridge. Owned by City of Cambridge and City of Boston, a bridge. Loss to City of Cambridge, $2,246 Cause, supposed by electric wires.

Thursday, Oct. 6, 8 07 P. M. Box 215.

Ninth Street freight yard. Owned by Boston & Albany Railroad Co. as freight car. Loss, $100. Insurance, $100. Occupied by J. W. Sanborn as hay. Loss, $99. Insurance, $99. Cause, incendiary.

Friday, Oct 7, 4 25 P. M. Box 61.

University Road. Owned by Boston Elevated Railway Co. Loss, $10,000. Insurance, $10,000. Occupied by Boston Elevated Railway Co. as blacksmith shop and storage room. Loss, $1,000. Insurance, $1,000. Cause, spontaneous combustion.

Saturday, Oct. 8, 1.49 P. M. Box 167.

No. 32 Linnæan Street. Owned by E. J. Grenier. Loss, $1,025. Insurance, $8,500. Occupied by E. J. Grenier as dwelling. Loss, $275. Insurance, $1,000. Originated in the cellar. Cause, wood on top of furnace igniting.

Wednesday, Oct. 12, 9.40 A M. Still.

No. 2 Holyoke Place. Owned and occupied by Alpha Delta Phi Club. Loss, trifling. Originated in the kitchen. Cause, pan of fat taking fire.

Sunday, Oct. 16, 10 17 P. M. Box 215.

No. 258 Charles Street. Owned by William Littlefield as dwelling. No loss. Cause, incendiary.

Monday, Oct. 17, 11.30 A. M. Box 83.

No. 12 Traill Street Owned by M. N. White as dwelling No loss. Cause, soot in chimney afire.

Tuesday, Oct. 18, 10.05 P. M. Still.

No. 17 Orchard Street. Owned by R. M. McFadden as dwelling. Loss, $25. Insurance, $2,500. Originated in the kitchen. Cause, ignition of naphtha.

Wednesday, October 19, 12.21 A. M. Box 26.

No. 734 Main Street. Owned by Charles Van Buskirk as wheelwright shop. No loss. Cause, supposed of incendiary origin.

Friday, Oct. 21, 8.17 P. M. Still.

First Street. Owned by Coleman Bros., as soft coal. Loss, trifling. Cause, spontaneous combustion.

Friday, Oct. 21, 8.37 P. M. Box 139.

Pearl Street. Cause, false alarm given by some malicious person.

Friday, Oct. 21, 10 P. M. Box 148.

Cambridge Street. Cause, false alarm given by some malicious person.

Sunday, Oct. 23, 9.02 P. M. Box 16.

Ninth Street, freight yard. Owned by Boston & Albany Railroad Co. as car. Loss, $100. Insurance, $100 Occupied by E. R. Luke & Co., as hay. Loss, $60. Insurance, none. Cause, incendiary.

Monday, Oct. 24, 10.45 A. M. Box 454.

College Yard. Owned by Harvard University as dormitory. Loss, trifling. Originated in basement in old paper. Cause, supposed by mice and matches.

Tuesday, Oct. 25, 1.44 P. M. Box 32.

No. 329 Elm Street. Owned and occupied by Bridget Condon as stable. Loss, $100. No insurance, Cause, set afire by children.

Tuesday, Oct. 25, 6.30 P. M. Still.

Foot of Regent Street. Owned by Fitchburg Railroad Co. as freight car. Loss, trifling. Occupied by J. Cushing & Co., as hay. Loss, $104. Insurance, $104. Cause, unknown.

Thursday, Oct. 27, 10.20 P. M. Still.

Rear No. 467 Cambridge Street. Owned by G. R. Brine as unoccupied dwelling. Loss, trifling. Cause, incendiary.

Friday, Oct. 28, 11.21 P. M. Box 26.

No. 740 Main Street. Occupied by Standard Turning Works as woodworkers Loss trifling. Originated in a car of dry lumber setting on second floor. Cause, supposed by spontaneous combustion.

Sunday, Oct. 30, 5.48 P. M. Box 72.

No. 75 Reed Street. Owned by M. G. Melvin as dilapidated dwelling. No loss. Cause, set afire by boys.

Monday, Oct. 31, 5 05 P. M. Box 73.

Rear Rindge Avenue. Owned by William Skane as sheds. Of no value. Cause, set afire by boys.

Monday, Oct. 31, 11.30 P. M. Still.

No. 65 Frost Street. Occupied by Frank Lynes as dwelling. Loss, trifling. Cause, igniting of floor under gas heater.

NOVEMBER.

Thursday, Nov. 3, 10.52 P. M. Box 73.

Rear Rindge Avenue. Owned by William Skane as shed. Of no value. Cause, set afire by boys.

Friday, Nov. 4, 10.21 P. M. Box 215.

Ninth Street, freight yard. Owned by Boston & Albany Railroad Co. as freight car. Loss, $100. Insurance, $100. Occupied by E. R. Luke & Co. as hay. Loss, $100. No insurance. Cause, incendiary.

Saturday, Nov. 5, 5.47 A. M. Box 136.

Nos. 527–529 Massachusetts Avenue. Owned by D. A. Buckley estate. Loss, $883. Insurance, $6,000. Occupied by Harvard Lodge of I. O. O. F. Loss, $196. Insurance, $400. Occupied by Edward A. Carney as grocery. Loss, $12. Insurance, $1,200. Originated in Lodge room Cause, pipe smoking.

Sunday, Nov. 6, 10.17 P. M. Box 13.

No. 333 Cambridge Street. Owned by Charles Viano as unoccupied dwelling. No loss. Cause, incendiary.

Friday, Nov. 11, 2.35 P. M. Box 59.

No. 9 Brattle Street. Owned by Charles Moore. Loss, $185. Insurance, $7,000. Occupied by P. C. Toohey as cobbler. Loss, trifling. Cause, supposed by hot pipe in coat pocket

Sunday, Nov. 13, 9.45 P. M. Box 24.

No. 72 Brookline Street. Owned by J. E. Grigg as unoccupied dwelling. Loss, trifling. Cause, incendiary.

Wednesday, Nov. 16, 9.59 A. M. Box 415.

Sixth Street. Cause, ignition of naphtha in sewer-trench. No damage.

Thursday, Nov. 17, 10.20 P. M. Still.

No. 12 Reservoir Street Occupied by Hiram Bingham as dwelling. No loss. Cause, soot in chimney afire.

Friday, Nov. 18, 4.50 A. M. Still.

No. 129 Franklin Street. Occupied by National Biscuit Co., as bakery. Cause, accidental automatic alarm.

Friday, Nov. 18, 12.52 P. M. Box 52.

No. 1131 Massachusetts Avenue. Occupied by J. L. Miskelly as dwelling. No loss. Cause, hot ashes in box in the cellar.

Friday, Nov. 18, 5.56 P. M. Box 17.

On Boston & Albany Railroad. Owned by Ivers & Pond Piano Co., as lumber. Loss, trifling. Cause, set afire by boys.

Saturday, Nov. 19, 12.04 A. M. Box 152.

Bow Street. Cause, false alarm given by some malicious person.

Saturday, Nov. 19, 1 27 P M. Box 62.

No. 5 Gerry Street, Owned by Philip Nutting estate as unoccupied dwelling. Loss, $75. Insurance, $1,000. Cause, thawing out water-pipe.

Saturday, Nov. 19, 5.36 P. M. Box 162.

No. 7 Bradbury Street. Occupied by Annie Roach as dwelling. Loss, trifling. Cause, overheated stove igniting floor.

Saturday, Nov. 19, 5.43–6.12 P. M. Box 136.

Nos. 534 and 538 Massachusetts Avenue. Owned by Cambridge Odd Fellows Association. Loss, $8,000. Insurance, $33,800. Occupied by G. A. Coops as variety store. Loss, $1,000. No insurance. Occupied by Cambridge Odd Fellows Association et al. Loss, $2,114. Insurance, $8,200. Occupied by Lewis Rosenburg as shoe store. Loss, $2,937. Insurance, $7,500. Originated in cellar of variety store. Cause, supposed by stepping on a match and igniting paper.

Sunday, Nov. 20, 5.25 P. M. Still.

No. 14 Eliot Street. Occupied by Nellie Farrell as dwelling. Loss, trifling. Cause, overheated stove.

Tuesday, Nov. 22, 10.47 A. M. Box 17.

No. 61 Harvard Street. Owned by Lever Bros. as unoccupied dwelling. Loss, $168. Insurance, $600. Cause, set afire by boys.

Tuesday, Nov. 22, 5.45 P. M. Still.

No. 98 Columbia Street. Occupied by M. D. Delaney as dwelling. No loss. Cause, explosion of a lamp.

Tuesday, Nov. 22, 6.32 P. M. Box 271.

Harvey Street. Owned by E. R. Dix as lumber. Loss, trifling. Cause, set afire by boys.

Wednesday, Nov. 23, 4.39 P. M. Box 32.

No. 424 Columbia Street. Owned by Michael Heffernan. Loss, $65. Insurance, $3,000. Occupied by John Coughlin as dwelling. Loss, $135. Insurance, $500. Cause, dropping of lighted lamp in bedroom.

Thursday, Nov. 24, 7.50 A. M. Box 419.

No. 107 Harvard Street. Occupied by Lever Bros. as soap manufactory. No loss. Cause, oiled waste taking fire.

Thursday, Nov. 24, 10.50 P. M. Box 14.

No. 23 Eighth Street. Owned by G. A. Weber as stable. No loss. Cause, unknown.

Friday, Nov. 25, 3 P. M. Still.

No. 12 Marcella Street. Occupied by Thomas Furlong as dwelling. Loss, trifling. Cause, hot ashes in a box on the roof.

Friday, Nov. 25, 7.48 P. M. Box 215.

Spring Street. Cause, false alarm given by some malicious person.

Saturday, Nov. 26, 5.31 P. M. Box 149.

No. 18½ Baldwin Street. Occupied by J. J. Mullin as dwelling. Loss, trifling. Cause, oil stove taking fire.

Saturday, Nov. 26, 9.37 P. M. Box 43.

Banks Street. Owned by J. T. Culhane. Loss, $30. Insurance, $1,000. Occupied by J. T. Culhane as stable. Loss, trifling. Cause, incendiary.

Sunday, Nov. 27, 2.05 A. M. Still.

No. 351 Green Street. Occupied by L. M. Humphrey as dwelling. No loss. Originated in the cellar. Cause, explosion of oil lamp.

Monday, Nov. 28, 12 45 M. Still.

No. 739 Massachusetts Avenue. Occupied by J S. Reardon as dry goods. No loss. Cause, burning wood dropping from the furnace in cellar.

Monday, Nov. 28, 11.52–12 P. M. Box 413.

No. 123 Binney Street. Owned by Alden Speare's Sons Co. Loss, $3,500. Insurance, $3,500. Occupied by Alden Speare's Sons Co. as storage of oil. Loss, $1,700. Insurance, $3,000. Occupied by M. A. Graham as stable. Loss, $700. Insurance, $2,000. Originated in storage room. Cause, unknown.

Tuesday, Nov. 29, 10.58 A. M. Still.

No. 94 Avon Hill Street. Owned by Sullivan Niles as dwelling. No loss. Cause, soot in chimney afire.

Tuesday, Nov. 29, 5.28 P. M. Box 36.

No. 32 Prospect Street Owned by Pratt Brothers. Loss, $827. Insurance, $45,000. Occupied by G. S. Green as variety store. Loss, $389. Insurance, $800. Cause, explosion of a lighted lamp.

Tuesday, Nov. 29, 8.50 P. M. Still.

No. 55 Otis Street. Owned by John Lufkin as dwelling. No loss. Originated in rubbish in the cellar. Cause, children and matches.

Wednesday, Nov. 30, 12.16 A. M. Box 413.

No. 123 Binney Street. Cause, steam from manure pile mistaken for fire.

Wednesday, Nov. 30, 8.42 A. M. Box 418.

No. 145 Broadway. Owned by Sylvester Tower. Loss, $500. Insurance, $500. Occupied by Sylvester Tower as dryroom. Loss, $900. Insurance, $900. Cause, supposed by overheating.

Wednesday, Nov. 30, 5.41 P. M. Box 27.

No. 119 Harvard Street. Owned by Taft & Waite. Loss, $177. Insurance. $10,000. Occupied by F. E. McFarland as dwelling. Loss, $35. Insurance, $1,000. Originated in woodwork around chimney. Cause, supposed by mice and matches.

Wednesday, Nov. 30, 11.45 P. M. Still.

No. 320 Main Street. Owned by Samuel Rose Loss, $120. Insurance. $3,000. Occupied by Samuel Rose as carpenter. Loss, $105. Insurance, $1,200, Originated on second floor. Cause, sparks from stove.

REPORT OF THE CITY MESSENGER

OFFICE OF CITY MESSENGER,
CAMBRIDGE, MASS., December 1, 1904.

To the Honorable, the City Council: —

GENTLEMEN: — In compliance with the provisions of Section 3, Chapter 8, of the "Revised Ordinances of 1892" the City Messenger has the honor to submit his annual report for the year ending November 30, 1904, as follows: —

Stock of stationery on hand December 1, 1903	$459 97
Purchased during the year	1,399 60
	$1,859 57

Delivered to the heads of departments as follows: —

Assessors' Department	$132 88
Auditing Department	62 11
Board of Health	58 22
Board of Survey	4 36
Cemetery Department	61 00
City Clerk Department	145 30
City Messenger Department	92 70
Clerk of Committees	96 29
Contingent Fund (City Council Expenses)	19 85
Election Expenses (City Clerk)	81 60
Electrical Department (Wires)	16 80
Electrical Department (Lamps)	5 46
Engineering Department	34 80
Executive	83 98
Fire	1 70
Inspector of Milk and Vinegar	4 41
Law Department	59 01
Overseers of the Poor	73 00
Park Department	56 42
Police Department	42 53
Sealer of Weights and Measures	6 23
Sewer Department	11 31
Soldiers' Aid Department	8 30
Street Department	101 79
Superintendent of Public Buildings	25 52
Registrars of Voters	13 50
Treasury Department	45 34
Water Department	35 58
Stock on hand December 1, 1904	479 58
	$1,859 57

During the year Annual Documents have been received from the following cities and towns and are on file in the reference library :—

Arlington, 1903.
Bangor, Me., 1904.
Belmont, 1903.
Beverly, 1903.
Brockton, 1903.
Brookline, 1904.
Burlington, Vt., 1903.
Boston, 1904.
Chicopee, 1903.
Chelsea, 1903.
Concord, N. H., 1903.
Everett, 1903.
Fall River, 1903.
Fitchburg, 1903.
Gloucester, 1903.
Haverhill, 1903.
Holyoke, 1903.
Lawrence, 1903.
Lowell, 1903.
Lynn, 1903.
Medford, 1904.
Mass. Public Documents, 1903.
Nashua, N. H., 1903.
New Bedford, 1903.
Newburyport, 1903.
Newton, 1903.
Newport, R. I., 1903.
North Adams, 1903.
Northampton, 1903.
Portland, Me., 1903.
Pittsfield, 1904
Portsmouth, 1903.
Providence, R. I., 1903.
Salem, 1903.
San Francisco, Calif., 1903.
Somerville, 1903
Springfield, 1904.
St. Louis, Mo., 1903.
Taunton, 1903.
Waltham, 1903.
Watertown, 1904.
Woburn, 1903.
Worcester, 1904.

Respectfully submitted,

FRANK T. EVANS,
City Messenger

REPORT OF THE AGENT OF SOLDIERS' AID

CAMBRIDGE, December, 1904.

To the Honorable, the City Council of the City of Cambridge:—

GENTLEMEN:—I respectfully submit the annual report of this department for the financial year ending November 30, 1904.

In accordance with an order of the Board of Aldermen, under date of February 3, 1903, the office of the Soldiers' Aid was consolidated with that of the Clerk of Committees, and the assistant in the latter office was assigned to take charge of the disbursement of aid and perform all the duties in connection therewith.

The work is performed in accordance with Chapter 79 of the Revised Laws of this Commonwealth of the year 1902, as amended by Chapter 381, Acts of the year 1904. The following provisions are included in these laws, viz.:—

Section 18 of Chapter 79, Revised Laws, Soldiers' Relief. Chapter 381, Sections 1 to 9, State Aid: 9 to 12, Military Aid, and 17 to 18, Burial Laws. Aid known as State Aid in repaid by the State to the city. Military Aid, the State and city divide the expense equally, and Soldiers' Relief is met entirely by the city or town disbursing the same. The amounts expended by cities and towns for State and Military Aid are repaid by the State on the tenth day of December of the following year. Sections 17 and 18 of Chapter 381, provides for the burial of indigent soldiers and sailors and the widows and mothers of both Civil and Spanish War veterans, and a burial agent appointed by the Mayor performs this duty but without compensation. The City pays $35.00 for each burial, the whole of which is reimbursed by the State.

A financial statement is also appended, showing the total expenditures of the office for the year 1904, which amounts to $25,657.32.

Total number of beneficiaries November 30, 1903	394	
New applications during the year	90	
		484
Died during the year	22	
Left the City or dropped from rolls	54	
		76
Total on rolls November 30, 1904		408

Amount appropriated for the year 1904		$25,000 00
Additional appropriation November 22, 1904		675 00
Total appropriation		$25,675 00

EXPENDED.

Pay-rolls	State Aid	$13,273 00	
	Military Aid	736 00	
	Soldiers' Relief	8,795 00	
Other expenses, including burials, etc.		2,853 32	
Total expenditures			25,657 32
Balance unexpended			$17 68

The disbursement of aid for the needy veterans and their widows, is a matter which requires a great deal of consideration and some careful study. While the needs of those applying must be met, still the financial interests of the City must be kept in sight. After nearly two years of service in this department, I find that in order to keep in touch with all applicants, a personal investigation should be made of every case, which cannot be done under the present condition, as one having charge of this work should not be connected with any other department. The expenditure of $25,000.00 yearly means a great deal to our City, and as the veterans grow older this sum is bound to increase.

To the Committee on Soldiers' Aid, I desire to extend my sincere thanks for the conscientious manner in which they have passed upon the several cases which have been presented to them, and for the manifest willingness they have shown to assist the needy veterans and their widows.

Respectfully submitted,

EBEN W. PIKE,
Agent.

ANNUAL REPORT OF OVERSEERS OF POOR

1903-4

Central Square Building,
Cambridge, December 22, 1904.

To the Honorable, the City Council of the City of Cambridge: —

Gentlemen: — The Overseers of the Poor herewith present their twenty-seventh annual report, under the Act of May 7, 1877.

The membership of the Board has been again broken during the year by resignation and retirement, and by the appointment of new members by the City Council.

On January 19, 1904, the City Council elected James F. Mullen as an Overseer of the Poor for the term ending 1908, in place of Alexander Millan whose term expired, and who had been a member of the Board since May 14, 1895.

On the same date Francis X. Massé was elected by the City Council for the term ending May 1, 1905, to fill the vacancy caused by the resignation of Charles Bullock.

On the same date Henry H. Winslow was elected by the City Council for the term ending May 1, 1906, to fill the vacancy caused by the resignation of Charles Walker.

On February 23, 1904, Jeremiah Crowley, — who was elected as an Overseer of the Poor on March 25, 1902, by the City Council, for a term of five years, — forwarded his resignation to the Board, which was duly accepted, and a committee was chosen to prepare suitable resolutions of regret. This committee submitted a series of resolutions which were adopted by the Board, as follows: —

"Being duly notified of the resignation of our esteemed associate, Jeremiah Crowley, who has served the City efficiently and faithfully during his term of office, therefore be it

Resolved, That we tender him this expression of our sincere regret at his resignation from the Board and departure from the City.

Resolved, That the City has lost a most valuable official and an honorable and upright citizen.

Accordingly we direct that a copy of these Resolutions be entered on our records and that a copy be presented to Mr. Crowley."

On March 15, 1904, the City Council filled the vacancy and made choice of John R. Fairbairn as a member of the Board of Overseers of the Poor for the term ending May 1, 1907.

On the same date the City Council re-elected Patrick Crowley for the term ending May 1, 1909, and he was also re-elected as chairman of the Board for the ensuing year.

At the annual meeting of the Board held on May 2, 1904, David P. Muzzey was re-elected secretary and Addie Benson as clerk of the Board, Charles E. Goodrow as superintendent and Emma A. Goodrow as matron of the City Home. The salary of each of these officers was fixed by the Board for the ensuing year.

It had been the custom of the Board for several years to delegate certain duties to various committees, known as committee on outside aid, committee on almshouse and committee on finance. This practice, however, was abolished and it was voted that hereafter no committees should be appointed, but that the entire business should be done by the Board as a whole.

The system of outside aid, and investigation, which was adopted by the Board in July, 1902, has been continued through the year. The applicant for relief is required to appear at the office of the Board in person, if possible, and give his name and residence and state the circumstances of his need to the secretary. The investigation is further continued by the visitor, or person acting in his behalf, the facts of his settlement under the pauper laws are ascertained, and his worthiness as an object of relief is discovered. The rules of the Board do not allow any child to make application for relief for parents, friends, or any person whatever, as this habit has been found to be an extensive evil.

Every case is numbered and carefully tabulated on cards prepared for this especial purpose by the printer, and a minutely detailed record is kept upon them of all information obtained, action taken, and relief rendered, or refused. These cards are kept in prepared cabinets of proper form and deposited in the fire-proof vault connected with the office of the Board. The number of histories now on file is thirteen thousand seven hundred and twenty-one.

The list of annual estimates as prepared by the Board were sent to the City Council on January 19, 1904, as follows: —

Outside Aid,	salaries,	$2,656 00	general expenses,	$22,548 44	$25,204 44
City Home,	"	7,350 00	" "	12,595 00	19,945 00
Farm,	labor,	4,300 00	supplies,	950 00	5,250 00
House Offal,	"	24,145 00	general expenses,	6,555 00	30,700 00
					$81,099 44

The following appropriations were actually made by the City Council: —

Outside Aid,	salaries,	$2,700 00	general expenses,	$20,500 00	$23,200 00
City Home,	"	7,300 00	" "	12,000 00	19,300 00
Farm,	labor,	4,200 00	supplies,	800 00	5,000 00
House Offal,	"	24,000 00	general expenses,	6,500 00	30,500 00
					$78,000 00

The following were the actual expenditures for the year: —

Outside Aid,	salaries,	$2,755 00	general expenses,	$22,608 38	$25,363 38
City Home,	"	7,293 11	" "	12,000 00	19,293 11
Farm,	labor,	4,157 25	supplies,	800 00	4,957 25
House Offal,	"	24,511 64	general expenses,	6,500 00	31,011 64
					$80,625 38

The following estimates for revenue were made by the Overseers of the Poor on January 19, 1904: —

Outside Aid	$900 00
City Home	800 00
Farm	5,500 00
House Offal	10,000 00
	$17,200 00

The following was the actual revenue during the year: —

Outside Aid	$2,340 36
City Home	1,039 01
Farm	4,286 47
House Offal	11,729 75
	$19,395 59

The actual comparative net cost each year during the past five years has been as follows: —

	1900.	1901.	1902.	1903.	1904.
Outside Aid,	$48,844 72	$46,009 95	$39,006 97	$40,671 41	$23,023 02
City Home,	20,875 72	21,557 52	18,056 21	18,090 80	18,254 10
Farm,	Net gain, 118 86	Net gain, 180 92	168 53	1,089 77	670 78
House Offal,	18758 49	19,598 78	18,596 97	20,488 02	19,281 89
Total,	$88,360 07	$86,985 33	$75,828 68	$80,340 00	$61,229 79

During the year the number of persons at institutions for whom the City has been liable is as follows: —

City Home	155
State Insane Hospitals	192
State Hospital, paupers	40
Insane in families	2
State Hospital for Epileptics	16
State Hospital for Dipsomaniacs	7

Massachusetts School for Feeble Minded	16
Baldwinville Hospital Cottages for Children	1
Cambridge Hospital	4
Carney Hospital	19
Children's Hospital	1
Boston City Hospital	35
Massachusetts General Hospital	1
Massachusetts State Sanatorium	2
Holy Ghost Hospital	1
Saint Mary's Hospital	1
Worcester City Hospital	1

In the above list the insane cases referred to consist only of those for whose support the City is liable previous to January 1, 1904, at which time the new law went into effect which relieved the Overseers of the Poor of support of the insane from that date and placed the burden of expense in the general taxation of the State.

There have been 444 histories, 13,277 to 13,721, taken of new applicants for relief, consisting of 1,332 persons,— 616 males, 716 females — 348 adults and 994 minors.

The City Physican has made 1,447 visits upon 118 patients at the City Home, and he has also made 1,168 visits upon 667 patients outside of the institution. There were 43 examinations as to sanity and 37 certificates were issued from his office. There has been paid from the Overseers of the Poor appropriation $207.03 for outside medicine and $297.93 for City Home medicine, $61.61 have been paid for Outside Aid surgical appliances and $21.44 at the City Home, $135 have been paid for outside additional medical service.

There were 16 deaths at the City Home during the year, 21 sick persons were sent to the hospitals, 38 persons received burial in the Cambridge Cemetery on Outside Aid account at an expense of $316.72, and 5 persons on City Home account, at an expense of $86.75 for undertaker's services and interment. At the City Home the oldest person to die was a woman of 94 years who died of old age, and the youngest was a man of 36 years who died of pneumonia and dropsy.

There have been 155 inmates in the City Home during the year, and there remained 89 persons on November 30, 1904, the average being 86 during the year.

There have been 195 families, 512 persons aided from the office of the Board during the past year.

RECAPITULATION.

Total expenditures for Outside Aid, City Home, Farm	$49,613 74
Receipts for same	7,665 84
Net cost of care of poor	$41,947 90

Before closing their report the Overseers desire to call the attention of the City Council to the new and efficient management of the City Home and the excellent financial exhibit which appears in the report of the Superintendent. Many improvements have been made both in the Home itself and the outside buildings at the least possible cost. The inmates of the Home have been carefully provided for and a general air of comfort and contentment pervades the institution.

The Overseers would also emphasize the need of better hospital provision for the sick and disabled inmates of the Home, and refer particularly to the suggestion made by the City Physician in his annual report to cover this necessity by making use of the now unoccupied cottage hospital upon the City Home grounds. An expenditure of about $2,000 would be required to make it suitable for the wants of the sick poor, resulting in an eventual saving of money to the City, beside facilitating the care of the inmates.

Respectfully submitted,

PATRICK CROWLEY,
JAMES F. MULLEN,
JOHN R. FAIRBAIRN,
FRANCIS X. MASSE,
HENRY H. WINSLOW,
Overseers of the Poor of Cambridge.

REPORT OF THE SUPERINTENDENT OF THE CAMBRIDGE CITY HOME

CAMBRIDGE, December 1, 1904.

To the Overseers of the Poor: —

GENTLEMEN: — The annual report of the Cambridge City Home for the year ending November 30, 1904, is herewith respectfully submitted.

The whole number in the Home during the year has been as follows: —

Males	85
Females	70
Total	155
Adults	151
Minors	4
Whole number in the Home November 30, 1904	89
Average number during the year	86

Included in the whole number in the Home, November 30, 1904, there are: —

IDIOTIC OR IMBECILE.

Males	0
Females	1
Total	1

BLIND.

Males	0
Females	1
Total	1

EPILEPTIC.

Males	2
Females	1
Total	3

Included in the whole number discharged during the year, are twelve persons sent to other institutions, as follows: —

State Hospital	7
State Home	2
Worcester Insane Hospital	2
Free Home for Consumptives	1

Remaining in Home November 30, 1904: —

Males	50
Females	39
Adults	88
Minors	1

All statistics of general interest will be exhibited by the following tables: —

TABLE I.

Showing the number and sex of adult persons and minors of all classes received into the Cambridge City Home in each month of the year ending November 30, 1904.

Months.	Adults.		Minors.		Total.	Dependent Children.		Neglected Children.	
	M.	F.	M.	F.		M.	F.	M.	F.
1903									
December	3	4	0	0	7	0	0	0	0
1904									
January	6	1	0	1	8	0	0	0	1
February	1	2	1	0	4	0	1	0	0
March	5	8	1	0	14	0	0	1	0
April	2	1	0	0	3	0	0	0	0
May	2	0	0	1	3	0	0	0	1
June	1	2	0	0	3	0	0	0	0
July	1	1	0	0	2	0	0	0	0
August	6	0	0	0	6	0	0	0	0
September	3	2	0	0	5	0	0	0	0
October	4	2	0	0	6	0	0	0	0
November	7	2	0	0	9	0	0	0	0
Totals	41	25	2	2	70	0	1	1	2

TABLE II.

Showing the number and sex of adult persons and minors of all classes discharged from the Cambridge City Home in each month of the year ending November 30, 1904.

Months.	Adults.		Minors.		Total.	Dependent Children.		Neglected Children.	
	M.	F.	M.	F.		M.	F.	M.	F.
1903									
December	0	1	0	0	1	0	0	0	0
1904									
January	4	1	0	0	5	0	0	0	0
February	0	1	0	1	2	0	0	0	1
March	4	9	1	0	14	0	0	1	0
April	10	2	0	0	12	0	0	0	0
May	7	1	0	1	9	0	0	0	1
June	0	4	0	0	4	0	0	0	0
July	2	0	0	0	2	0	0	0	0
August	1	1	0	0	2	0	0	0	0
September	2	2	0	0	4	0	0	0	0
October	3	3	0	0	6	0	0	0	0
November	1	3	0	0	4	0	0	0	0
Totals	34	28	1	2	65	0	0	1	2

TABLE III.

Showing the name, age, date of admission, date and cause of death of each person who has died in the Cambridge City Home during the year ending November 30, 1904.

Name.	Age.	Date of Admission.	Date of Death.	Cause of Death.
Owen McKenna	73	Mar. 31, 1902	Jan. 4, 1904	Old Age.
Mary Warland	94	Aug. 5, 1879	Jan. 8, 1904	Old Age.
John H. Patch	87	Aug. 14, 1895	Jan. 22, 1904	Old Age.
Mary Brohan	72	Nov. 12, 1902	Feb. 28, 1904	Apoplexy.
Rebecca Carney	79	July 5, 1901	Mar. 9, 1904	Old Age.
Mary A. Hector	69	Mar. 12, 1904	Mar. 19, 1904	Old Age.
Thomas P. Houghton	81	July 2, 1897	Mar. 20, 1904	Old Age.
Cyrenius Crosby	87	Mar. 25, 1904	April 1, 1904	Old Age.
Ellen Lyons	73	Mar. 29, 1904	April 4, 1904	Pneumonia.
Wesley Olmstead	36	April 11, 1904	April 13, 1904	Pneumonia & Dropsy.
Geo. H. Howard	63	Mar. 2, 1901	April 21, 1904	Rheumatism & Heart Failure.
Mary E. McConville	63	April 23, 1900	May 23, 1904	Paralysis.
John Murray	74	Nov. 6, 1895	May 23, 1904	Accident.
Catherine Shoucks	67	Sept. 13, 1882	Sept. 9, 1904	Old Age.
Mary J. O'Brien	59	Sept. 16, 1904	Sept. 18, 1904	Diabetes.
Mary A. Hanson	75	Mar. 13, 1903	Oct. 26, 1904	General Debility.

PRODUCTS OF THE FARM WITH THEIR APPROXIMATE VALUES.

5	tons straw	$110 00
153	bushels beets	66 45
1,150	dozen celery	1,235 00
270	bushels parsnips	174 00
450	dozen eggs	125 00
872	bushels dandelions	342 40
397	dozen radishes	32 75
893	dozen lettuce	146 60
495	bushels spinach	93 80
272	bushels onions	247 00
50	bushels beet greens	5 00
12,924	bunches beets	219 88
14,323	cabbages	458 00
248	bushels string beans	146 75
13,826	cucumbers	131 60
260	bbls. squash	140 00
468	bushels tomatoes	204 50
22	bushels corn	17 50
180	bunches asparagus	16 60
100	boxes strawberries	15 00
16,771	lbs. pork	975 51
1	ton hay	15 00
23	bushels peas	17 25
344	bushels carrots	124 60
4,784	bunches carrots	67 03
1,514	bunches parsnips	93 00
120	cords manure	360 00
	Total	$5,580 22

COMPARATIVE TABLE OF CITY HOME, FARM, LEDGE AND HOUSE OFFAL RECEIPTS FOR TWENTY-FOUR YEARS ENDING NOVEMBER 30, 1904.

Years.	Board.	Chair Shop.	Farm.	General Sales.	Stone.	House Offal.	Totals.
1881	$322 56	.....	$378 50	.....	$2,529 01	$5,536 88	$8,766 95
1882	705 34	.....	436 54	.....	2,626 17	5,705 22	9,473 27
1883	1,174 96	.....	476 22	$14 19	2,622 00	5,819 55	10,106 92
1884	1,480 93	.....	316 76	.....	4,238 77	6,449 96	12,486 42
1885	2,035 58	.....	335 32	149 85	4,509 84	7,354 26	14,384 95
1886	613 93	$37 50	772 14	319 75	5,611 38	6,926 23	14,280 93
1887	514 64	634 19	1,595 10	241 37	4,684 14	6,856 59	14,526 03
1888	557 28	614 94	2,846 52	213 62	6,662 26	6,721 50	17,617 86
1889	274 84	479 28	3,684 59	144 36	5,564 18	7,324 61	17,471 06
1890	302 49	794 36	4,364 03	150 89	5,651 38	7,386 33	18,649 48
1891	1,201 33	844 62	5,213 68	161 71	6,107 86	7,716 77	21,245 97
1892	1,253 06	899 81	5,371 60	166 45	5,220 50	7,535 57	20,447 55
1893	703 70	325 86	6,400 64	210 09	5,826 74	7,033 52	20,500 05
1894	1,094 89	220 07	6,504 66	615 69	7,955 42	8,218 96	24,609 69
1895	622 77	77 00	6,512 63	160 19	8,265 14	9,045 55	24,682 78
1896	834 52	61 25	5,623 67	147 02	7,639 48	9,155 35	23,461 24
1897	1,294 65	3 60	5,348 47	137 33	10,335 16	7,228 79	24,348 00
1898	1,038 19	.....	5,730 13	277 40	2,172 60	7,264 09	16,482 41
1899	703 17	.....	6,049 47	142 54	.....	6,997 40	13,892 58
1900	611 57	.....	5,082 43	137 40	.....	7,322 05	13,153 45
1901	793 32	.....	5,173 83	83 60	.....	8,016 71	14,067 46
1902	826 69	.....	5,098 37	78 15	.....	9,722 83	15,726 04
1903	659 21	.....	3,922 64	526 43	.....	10,359 99	15,468 27
1904	969 54	.....	4,286 47	69 47	.....	11,729 75	17,055 23
Totals	$20,589 16	$4,992 48	$91,524 41	$4,147 00	$98,222 03	$183,428 46	$402,904 59

Of the persons who died during the year one was between ninety and one hundred, three between eighty and ninety, six between seventy and eighty, four between sixty and seventy, one between fifty and sixty, and one between thirty and forty.

The average age of those who died was seventy-two.

The relative cost of the Offal Department as compared with last year is shown by the following percentages: —

The amount of offal collected was six per cent. more than last year, and the cash receipts were a fraction above ten per cent. more than the year previous, while the expenses were about one-half per cent. more.

The following figures may be of interest: —

	Cost of Collection	Cords Collected	Receipts
1903	$30,848 01	2,746	$10,359 99
1904	31,011 64	2,913	11,729 75

Allowing three loads to a cord, the number of loads collected this year was five hundred and one more than last.

It will be seen by the figures that the receipts equal nearly thirty-eight per cent. of the total expenditures.

During the year the stable has been shingled, painted, new sills put underneath, new gutters and conductors put on, and a forty-two foot truss put up in the offal shed, thereby doing away with the posts which formerly supported the roof. There was also built an addition to the stable, thirty feet by fifteen, which is to be used as a wash stand and as a place to dry blankets. The cost of these improvements amounted to nine hundred dollars.

The result of the work on the Farm is about the same as last year. The past season has been one of the poorest ever experienced by farmers in this section, the trouble being that there was such an abundance of garden truck, that prices were kept very low. This, together with the early frosts of September twenty-first and twenty-second, which ruined three hundred bushels of tomatoes, and made it necessary to take in our squashes before they were ripe, is the reason the showing is not better. However, under present conditions, I think it very favorable.

The conditions here are peculiar for carrying on a farm, for instance, where regular farm help is paid about thirteen and one-half cents per hour, the City pays about twenty-seven and one-half cents, or in other words, an ordinary farmer works sixty-six hours per week for nine dollars, while our men work forty-four hours and receive twelve dollars. I wish it distinctly understood that our men get no more pay than they should, as they work hard, and in all kinds of weather. I simply submit these figures to illustrate how difficult it is to make a good showing in this department. However, the Farm is no burden on the City, as the following figures will show.

Cash receipts	$4,286 47

PRODUCTS ON HAND DECEMBER 1, 1904.

24 pigs	110 00
100 boxes celery	330 00
3 000 cabbages	100 00
120 cords manure	360 00
	$5,186 47
Less expenses	4,957 25
	$229 22
Vegetables supplied Home one year to December 1, 1904	268 75
ggs supplied Home one year to December 1, 1904	125 00
Value produced above cost	$622 97
Cash Receipts, 1904 $4,286 47	
Cash Receipts, 1903 3,922 64	
Increase $363 83	

During the year all the sashes and window frames of the Home and out buildings have been painted, and also the fire escapes, the roof has been put in good order, and a new board fence eight feet high and three hundred feet long has been built.

The bedding throughout the Home is all new, the straw ticks having been replaced with soft-top mattresses, and each bed provided with a white spread, instead of a gingham one, as formerly. There are a number of other necessary repairs and improvements which should be made, and for which the necessary amount of funds should be appropriated.

Thanks are due the Street Department for furnishing granite blocks, which made it possible to build a curbing from the entrance of the Home to Tannery street.

I wish to extend thanks to Dr. William G. Brousseau and his associates for the minstrel show provided the inmates last Christmas, to Mr. James Conlin and his friends who provided two splendid entertainments during the year, to Mrs. Loula J. Womack, of Boston, and the Metomone Club of North Cambridge who gave an excellent entertainment in November. I thank your honorable Board for the kindly manner in which any suggestions made by me were received, and also for valuable advice on many occasions. I also thank the officers and employees in the several departments under my charge for the faithful and efficient manner in which they have performed their various duties.

Respectfully submitted,

CHARLES E. GOODROW,

Superintendent.

REPORT OF THE CITY PHYSICIAN

1903 — 1904

Cambridge, Mass., November 30, 1904.

To the Honorable, the City Council of the City of Cambridge: —

Gentlemen: — In accordance with the requirements of Chapter 45 of the revised ordinances of 1892, a report of the doings of this office for the year ending November 30, 1904, is hereby rendered: —

City Home.

Number of visits to the City Home	313
Number of persons attended there	118
Number of professional visits to the same	1,447
Number of births at City Home	0
Number of deaths at City Home	16
Cost of medicines and surgical appliances	$319 37

Outside Aid.

Number of persons attended for Overseers of Poor	667
Number of professional visits to the same	1,168
Number of examinations for insanity	43
Number of persons committed	37
Number of persons sent to hospital for treatment	21
Number of outside deaths	9
Medicines and surgical appliances	$268 64

Departmental Service and Totals.

Number of persons visited at the police stations	74
Number of visits to same	83
Number of persons examined for the Law Department	73
Number of employees examined for injuries received	73
Number of vaccinations for School Committee	138
Number of civil service examinations	48
Number of call men examined at the request of the Mayor	1
Number of examinations of policemen for retirement	3
Total number of persons receiving professional care	1,117
Total number of professional visits to the same	2,771

I would like to call to your attention the necessity of a hospital for the care of our poor patients, a necessity because it would, I am sure, save us money. I have had Miss Benson of your office tabulate hospital expenditures since 1896 to date, and make use of the year 1904, which has been an off year, as a comparison. If we can save on 1904, we certainly could on the previous years.

COMPARATIVE TABLE OF COST FOR HOSPITAL PATIENTS FROM DECEMBER 1, 1896, TO DECEMBER 1, 1904.

OUTSIDE AID.

Hospital.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.
Boston City	$846 00	$724 00	$736 00	$1,844 00	$643 00	$970 00	$951 00	$1,206 85	$633 00
Boston Lying-In	.....	.....	60 00	.....	.....	.....	.....	.....	.....
Brockton	.....	.....	.....	30 00	.....	.....	.....	.....	.....
Brookline	.....	.....	.....	186 42	.....	.....	.....	.....	.....
Cambridge	818 02	1,183 90	761 32	41 42	131 41	232 17	261 43	550 09	120 02
Carney	327 44	424 52	466 84	316 00	949 38	388 86	458 57	506 43	401 43
Chelsea	.....	.....	.....	75 00	.....	.....	.....	.....	.....
Children's	.....	.....	22 00	73 00	109 00	65 00	14 35	35 00	28 00
Convalescent	.....	.....	.....	.....	75 00	.....	.....	.....	50 00
Fall River	14 50	.....	.....	.....	.....	.....	.....	.....	.....
Haverhill	.....	28 00	.....	.....	.....	.....	.....	.....	.....
Holy Ghost	.....	.....	.....	.....	.....	.....	.....	.....	26 57
Homeopathic	.....	.....	.....	.....	.....	21 43	.....	.....	.....
Good Samaritan	.....	.....	.....	.....	7 00	.....	.....	.....	.....
Mass. General	63 50	.....	66 00	64 00	19 00	68 00	.....	18 00	9 00
Newton	.....	.....	.....	.....	.....	.....	.....	15 00	.....
Quincy	.....	36 00	.....	.....	.....	.....	.....	.....	.....
Revere	.....	.....	.....	6 00	.....	.....	.....	.....	.....
Salem	8 00	.....	.....	.....	.....	.....	.....	.....	.....
St. Mary's Inf.	.....	.....	6 00	.....	.....	.....	.....	.....	5 00
Somerville	.....	18 00	158 29	85 01	268 59	.....	34 29	.....	.....
Taunton	21 50	.....	.....	.....	.....	.....	.....	.....	.....
Worcester	.....	27 85	10 00	102 86	.....	.....	.....	38 00	4 00
Worcester Mem	.....	.....	.....	.....	.....	.....	.....	37 14	.....
Total	$2,098 96	$2,442 27	$2,286 45	$2,823 71	$2,202 38	$1,745 46	$1,769 64	$2,406 51	$1,227 02

CITY HOME.

Hospital.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.
Cambridge	$40 00	$88 52	$45 70	$10 00	.....	.....	$90 00	.....	.....
Carney	.....	.....	.....	8 00	$60 11	$10 00	17 15	34 28	.....
Children's	.....	12 00	.....	.....	.....	.....	.....	.....	.....
Mass. General	49 75	.....	.....	10 25	14 00	45 00	.....	.....	.....
Beverly	.....	.....	.....	.....	56 00	.....	.....	.....	.....
Somerville	.....	94 00	.....	.....	.....	.....	.....	.....	.....
Holy Ghost	.....	.....	.....	.....	.....	145 71	.....	.....	.....
Total	$89 75	$194 52	$45 70	$28 25	$130 11	$200 71	$107 15	$34 28	.....
Grand Total	$2,188 71	$2,636 79	$2,332 15	$2,851 96	$2,332 49	$1,946 17	$1,876 79	$2,440 79	$1,227 02

I have seen and received figures from the Superintendent of the City Home in relation to fitting up a vacant cottage on the Home grounds, which is going to ruin for the lack of use.

Here are his figures for fitting up the same, at my request: —

12 beds	$48 00	
12 blankets	50 00	
12 quilts	24 00	
12 mattresses	18 00	
48 sheets	24 00	
24 pillow slips	10 00	
Kitchen utensils	15 00	
12 pillows	12 00	
Steam-piping and heater	250 00	
Coal, one year	76 80	
Electric wiring	50 00	
Covered porch	150 00	
Incidentals	25 00	
Total		$752 80
Running Expenses: —		
1 nurse, a year	$360 00	
1 woman attendant, a year	260 00	
Incidentals	100 00	
Total		720 00
Grand total		$1,472 80

The cottage on the Home grounds is composed of six rooms on the same floor in which ten patients could be taken care of at a time.

We sent to the different hospitals last year fifty-six patients, a little over one a week on an average, at a cost of $1,227.02. Our little hospital once fitted up, it would not cost us that much to run it in good shape. We can get all the medical talent necessary without one cent of cost to us.

Gentlemen, I hope you will take this into consideration and when you make up your annual budget, you will lay this matter before his Honor the Mayor. I will be available at any time if you need my co-operation in this matter to explain anything you may desire.

I wish to extend my sincere thanks to Miss Benson, to Mr. Goodrow, the Superintendent of the City Home, and to Mr. Muzzey, your secretary for their kind assistance.

Respectfully yours,

WILLIAM G. BROUSSEAU, M. D.,
City Physician.

REPORT OF THE BOARD OF HEALTH

To the Honorable, the City Council: —

In compliance with the Public Statutes creating Boards of Health and defining their duties, we have the honor to make our annual report for the year ending December 31, 1904.

We respectfully call the attention of your honorable body to the following list of complaints investigated and nuisances abated during the year: —

NUISANCES ABATED.

Full, overflowing and offensive privy vaults	6
Offensive and defective water-closets	118
Full and defective cesspools and catch-basins	14
No traps to sinks	19
Leaky and defective traps	23
Defective drainage, open and defective drains	35
Plumbing tests made	54
Filthy yards	162
Filthy stables and cow sheds	33
Manure in yards and lots	4
Wet and damp cellars	20
Stagnant water on premises	10
Dead animals on premises	5
Dead hens on premises	4
Filthy buildings	7
Filthy cellars	107
New water-closets put in	48
Houses vacated	4
Dirty hen-coops	22
Miscellaneous	3
Total	698
Number of inspections	8,660
Number of subsequent inspections	5,391
Total	14,051
Number of notices served	209
Slop-closets and sluice-vaults abated	6
Offal receptacles cleaned and new ones provided	48
Vacant lots cleaned	5
Defective plumbing in whole house remedied	15
Privy vaults abated	4
Cesspools abated	16
Number of houses placarded	05
Premises disinfected	608
Number of cellars from which hens were removed	32
Number of patients taken to the Diphtheria Hospital	84
Number of patients taken to the Cambridge Hospital	30

MEDICAL INSPECTION OF SCHOOLS.

The diseases discovered in the schools and the number of cases were as follows: —

Chicken-pox	9
Measles	16
Mumps	21
Whooping-cough	3
Pediculosis	191
Diseases of ear	24
Diseases of eye	67
Diseases of nervous system	12
Diseases of skin	156
All other diseases	217
Total	716

DIPHTHERIA HOSPITAL.

January 1, 1904, there were in the hospital 7 cases remaining from the previous year. From January 1 to December 31, 1904, inclusive, there were admitted 125 cases. Of laryngeal diphtheria there were 21 cases, and 3 deaths; a fatality of 14.28 per cent. Of the ordinary form there were 95 cases, and 7 deaths; a fatality of 7.37 per cent. Of both forms combined the fatality was 8.62 per cent. On December 31, 1904, there were remaining in hospital 8 cases.

The stay in hospital and the termination of the illness of these cases (both clinically and bacterially diphtheria) were as follows: —

Days.	Recovered.	Died.	Total Days.	Days.	Recovered.	Died.	Total Days.
Under 1	..	6	2½	23	3	..	69
3	1	..	3	25	4	1	125
4	..	2	8	26	4	..	104
6	1	..	6	28	2	..	56
7	2	..	14	29	4	..	116
8	2	..	16	30	2	..	60
9	4	1	45	31	1	..	31
10	11	..	110	34	3	..	102
11	4	..	44	37	1	..	37
12	5	..	60	38	2	..	76
13	9	..	117	40	1	..	40
14	2	..	28	41	1	..	41
15	3	..	45	43	1	..	43
16	3	..	48	50	1	..	50
17	6	..	102	51	1	..	51
18	2	..	36	53	1	..	53
19	4	..	76				
21	9	..	189	Total..	106	10	2,135½
22	6	..	132				

There were also admitted 8 patients, all of whose cultures taken for diagnosis proved negative. Of these patients 3 had the laryngeal form of the diseases.

The stay in hospital and termination of the illness were as follows:—

Days.	Recovered.	Died.	Total Days.	Days.	Recovered.	Died.	Total Days.
1	1	..	1	9	1	..	9
2	1	..	2	20	1	..	20
5	1	..	5	21	1	..	21
6	1	..	6				
8	1	..	8	Total..	8	..	72

REGULATIONS.

The following regulations were adopted during the year:—

Upon the death, recovery or removal of a person sick with consumption, the householder shall disinfect to the satisfaction of the Board such rooms of his house and articles therein as in the opinion of the Board have been exposed to infection or contagion.

Whosoever violates the provision of this section (49, Chapter 75, of the Revised Laws) shall be punished by a fine of not more than one hundred ($100) dollars.

This Board advises the following treatment, in cases of tuberculosis, to wit:—Kalsomined or white-washed walls or ceilings shall be washed with a solution of washing soda, in the proportion of one half pound of soda to three gallons of hot water; and then kalsomined or white-wash again. Papered walls or papered ceilings shall be washed in the same way, and then papered anew. The woodwork shall be washed in the same way and then painted anew.

Adopted January 13, 1904.

A true record.

Attest: JAMES B. SOPER,
Clerk.

ORDERED: That no person shall keep or allow to be kept in any building or on any premises of which he may be the owner, lessee, tenant, or occupant, any cow or cows without a permit from the Board of Health.

Every person keeping a cow shall cause the place where it is kept to be well ventilated and kept at all times in a cleanly and wholesome condition It is therefore ordered that the following Regulation be and is hereby adopted:—

SECTION 1. No person shall use any building as a stable for cows unless it is well lighted and ventilated, has tight roof, and floor, good drainage and all other necessary means for maintaining the health and good condition of the cows, and has been approved by the Board of Health.

SECTION 2. Every person using any such building shall keep the same, and the premises connected therewith, and all land used for pasturage of the cows, clean and free from filth

SECTION 3. Every person keeping a milch cow shall permit it to be examined from time to time, as to its freedom from disease, by a proper person designated by the Board of Health.

SECTION 4. No person having an infectious disease, or having recently been in contact with any such person, shall milk cows or handle cows, measures, or other vessels, used for milk intended for sale, or in any way take part or assist in handling milk intended for sale, until all danger of communicating such disease to other persons shall have passed.

SECTION 5. No person shall sell or use for human food the milk of a diseased cow, or permit such milk to be mixed with other milk, nor until it has been boiled shall sell or use such milk, or any mixture of such milk, for food of swine or other animals.

Violation of the above Regulation is liable to a fine not exceeding one hundred ($100) dollars

Adopted March 2, 1904.

GOODWIN A. ISENBERG,
CHARLES T. WEEKS,
Majority of Board of Health.

Attest:
JAMES B. SOPER, *Clerk.*

AMENDMENT TO REGULATIONS OF BOARD OF HEALTH ADOPTED NOVEMBER 14, 1900.

The owner or owners of any building, the whole or any part of which is used as a dwelling, tenement, or lodging house, office, shop, store, billiard hall, or club room, which building is situated on a public or private street, court, or passageway in which there is a public sewer opposite to such building, or which is connected with a public sewer, shall provide such building with one water-closet and with one additional water-closet for every ten (10) persons, or fractional number thereof, dwelling therein beyond the number of twenty (20); also one additional water-closet for rooms used as offices; also one additional water-closet for each shop, store, billiard hall and club room therein. Such owner or owners shall keep such water-closet or closets at all times supplied with water by a system of pipes which shall in materials and workmanship be in accordance with the laws and ordinances of this City, relating to plumbing, and he shall maintain them in a condition of repair satisfactory to the Board of Health. Any person violating any of the provisions aforesaid shall forfeit a sum not exceeding one hundred dollars ($100).

Adopted, August 31, 1904.

Attest: JAMES B. SOPER,
Clerk.

REGULATION.

SECTION 1. No live chickens, hens, geese, ducks or other fowls, shall be brought into, kept, held, offered for sale, killed or plucked, in any place in the City of Cambridge, without a permit therefor, in writing, from the Board of Health, which shall be subject to revocation by said Board at any time.

SECTION 2. No carcass of any hen, chicken, turkey or goose, shall be brought into or exposed for sale in the City of Cambridge unless the feathers have been removed from said carcass before the same is brought within the city limits.

SECTION 3. Whoever violates the foregoing shall forfeit a sum not to exceed one hundred dollars.

Adopted October 19, 1904.

Attest: JAMES B. SOPER,
Clerk.

REGULATION.

The body of any animal or any part thereof, which is to be used as human food, shall not be carted or carried through the streets or avenues, unless it be so covered as to protect it from dust and dirt; and no meat, poultry, game or fish shall be hung or exposed for sale in any street, or outside of any shop or store, or in the open windows of any shop or store, or in the open windows or doorways thereof in the city of Cambridge. No meat or dead animal above the size of a rabbit shall be taken to any public or private market to be sold for human food until the same shall

have been fully cooled after killing, nor until the entrails, head and feet (except of poultry and game, and except the heads and feet of swine) shall have been removed.

Whoever violates the above Regulation is liable to a fine not exceeding one hundred (100) dollars.

Adopted November 16, 1904. Attest: JAMES B. SOPER, *Clerk.*

REGULATIONS FOR THE SALE AND CARE OF MILK.

CAMBRIDGE, MASS., November 16, 1904.

SECTION 1. The conditions under which every cow whose milk is sold or exposed for sale in the City of Cambridge shall be made known to the Board of Health, if said Board shall deem it necessary.

SECTION 2. No milk shall be sold or offered for sale unless the cows from which it is derived have within one year, been examined by a competent authority and shown to be free from disease dangerous to the public health.

SECTION 3. No milk kept for sale shall be stored, strained, cooled or mixed in any room used in whole or in part for domestic or sleeping purposes or for the stabling of horses or cattle or other animals or for the storage of manure, offal or other offensive matter.

SECTION 4 All rooms in which milk is stored, cooled, strained or mixed shall be provided with tight walls and floor and kept constantly clean. Proper apparatus shall be provided for washing or sterilizing all utensils used in handling milk and such utensils shall be washed with boiling water or sterilized by steam after being so used.

SECTION 5. No urinal, water-closet or privy shall be located in the rooms called for in the preceding sections or so situated as to pollute the atmosphere of said rooms.

SECTION 6. All milk produced for the purpose of sale shall be strained and cooled as soon as it is drawn from the cow.

SECTION 7. Milk kept for sale in any store, booth or stand, shall at all times register on test a temperature not higher than fifty degrees Fahrenheit, and shall be stored in a covered cooler, box or refrigerator.

SECTION 8. All cans, bottles or other vessels of any sort used in the sale or handling of milk shall be cleaned or sterilized before they are used again for the same purpose.

SECTION 9. No person shall use a milk vessel as a container for any other substance than milk.

SECTION 10. Every person engaged in the production, storage, transportation, sale, delivery or distribution of milk, immediately on the occurence of any case or cases of infectious disease, either in himself or in his family or amongst his employees or their immediate associates, or within the building or premises where milk is stored, sold, distributed, shall notify the Cambridge Board of Health.

SECTION 11. No person having an infectious disease, or having recently been in contact with a person having an infectious disease shall milk or handle cows, measures or other vessels used for milk intended for sale or in any way take part or assist in handling milk intended for sale until all danger of communicating such disease to other persons shall have passed.

SECTION 12. No vessels which have been handled by persons suffering from such an infectious disease shall be used to hold or convey milk until they have been thoroughly sterilized.

SECTION 13. No bottle, can or receptacle used for the reception or storage of milk shall be removed from a private house, apartment or tenement wherein a person has an infectious disease except with the consent of the Board of Health.

SECTION 14. No person, by himself, or by his servant or agent or as the servant or agent of any other person, firm, corporation shall bring into the City of Cambridge for the purposes of sale, exchange or delivery or sell, exchange or deliver any milk, skimmed milk, or cream which contains more than 500,000 bacteria per cubic centimeter, or which has a temperature higher than fifty degrees Fahrenheit.

SECTION 15. Whoever violates the above Regulation is liable to a fine not exceeding one hundred ($100) dollars.

Attest: JAMES B. SOPER

Adopted November 16, 1904.

The most pressing need from the standpoint of preventive medicine is, and for years has been, a hospital with ample accommodation for cases of diphtheria, scarlet fever and measles.

At the present time the Diphtheria Hospital can, when every bed is occupied, accommodate nineteen patients. The Cambridge Hospital can accomodate, without overcrowding, eight cases of scarlet fever. There is no place for the reception of cases of measles. This is a condition of affairs not creditable nor humane in a city of one hundred thousand inhabitants.

In case of a great outbreak of any one of the diseases mentioned above the Board of Health would be heavily handicapped in any effort to limit the spread of that disease, as the most efficacious method for such limitation is the prompt isolation in hospital of the early cases.

Though the outbreak of an infectious disease may not be attended by a large fatality the amount of privation and misery it may entail on the poor is not easily to be estimated.

The death rate for the year just past was the lowest on record. Particulars on this head will be found in the section on Vital Statistics.

CHARLES T. WEEKS, M. D.,
JOHN J. SCOTT,
ERNEST W. CLARK,
Board of Health of City of Cambridge.

BACTERIOLOGICAL LABORATORY,
CITY HALL. CAMBRIDGE, January 1, 1905.

To the Board of Health:—

GENTLEMEN: — I respectfully submit the following report of the work done in the laboratory for the year 1904, and also additional laboratory accommodations pertaining to the promotion of the health of our City.

Total number of examinations, 1,980, distributed as follows: —

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Positive cultures for diagnosis	39	30	35	18	19	19	4	10	8	12	15	18	227
Negative cultures for diagnosis	72	36	53	26	31	38	10	8	19	30	28	49	400
Cultures for diagnosis — no growth	0	1	1	0	1	0	0	0	0	0	0	1	4
Cultures for release	131	92	170	60	96	75	24	20	17	18	35	63	801
Cultures for release — no growth	0	1	1	0	4	0	0	0	0	0	0	0	6
Blood examinations for Widal test for typhoid	14	20	17	19	23	17	12	18	38	50	29	18	275
Sputa examinations for bacilli of tuberculosis	20	42	35	18	14	18	23	22	12	20	26	17	267
Total	276	222	312	141	188	167	73	78	94	130	133	166	1,980

During the past year, there were 332 cases of diphtheria reported to the Board of Health. Cultures were submitted and found to be positive in 227 of these cases. Thus 68 per cent. of the cases reported were pronounced positive by microscopical examination. The remaining 32 per cent. were reported as diphtheria without any culture having been submitted for diagnosis.

There were 267 sputa examined for the bacilli of tuberculosis, 104 were positive, and 162 negative. Of 275 samples of blood examined for the Widal test for typhoid fever, 80 were positive and 195 negative.

The call for blood examinations to determine whether the plasmodium malariae was present or not, has been sufficient, during the past year, to justify the recommendation that the testing of suspicious malarial blood should be added to the work of the laboratory and the necessary outfits supplied to the various stations for distribution to physicians. Also that the paracolon test for paratyphoid fever, should be made, if the physician desiring it would so specify, when submitting blood for examination. For the convenience of the physicians attending patients in the vicinity thereof, new culture stations have been located at Lombard's pharmacy, North Cambridge; Reeve's pharmacy, Massachusetts Avenue, and Woodrow's pharmacy, Cambridgeport.

Respectfully submitted,

JOHN R. SENNOTT, M. D.

CAMBRIDGE, January 1, 1905.

To the Honorable, the Board of Health of the City of Cambridge: —

The undersigned, Inspector of Provisions, respectfully submits a report of the work performed by him, with a statement of the results thereof during the past calendar year.

The practice of regularly visiting the slaughtering establishments licensed to do business in this City on the days set apart for slaughtering has been continued. In these establishments conditions have been found very satisfactory, and there has been manifested a willingness to comply not only with the requirements of law, but also with suggestions of the Inspector. Frequent visits have also been made to various stores throughout the City, engaged in the selling of provisions, meats, fish and fruit, and the general condition of these stores has been found to be good, such minor changes as were deemed necessary by the Inspector having been made almost invariably without objection. The experience of the Inspector with peddlers would seem to indicate that it might be advisable to pass some regulation which would place peddlers of fruits, vegetables, fish, etc., under the direct control of the Inspector of Provisions, so as to require them to report to him regularly at some stated period, for an inspection of their teams and goods. While an improvement has been affected in the apparatus used and the manner of disposing of goods by peddlers, it was still necessary to enter complaint against two persons for selling fruit in such a decayed condition as to be unfit for food purposes. In both of these cases conviction was obtained and a penalty of $10.00 was levied in each case. Two peddlers were also brought before the court for intemperance while engaged in selling their wares, and in these cases also conviction was decreed and a penalty of $20.00 was laid in each case.

During the year the Inspector believed it advisable to recommend to the Board the passage of a regulation which would prevent the exposing for sale outside of stores or shops meat, poultry, game or fish and the taking of proper precautions to prevent the accumulation of dust on the food so exposed and also to ensure the preservation of the goods in warm weather. The good results received from the regulation which was passed by the Board encourages me to suggest that included in a similar prohibition should be the method of selling dates and figs. At the present time these articles are often kept on stands outside of stores and are exposed to any accumulations of dust or filth that may be blown about by the winds. It does not seem probable that food thus exposed is fit for consumption.

The following statistical information is respectfully submitted.

Slaughter Houses — Animals Killed.

Cows	7,349	pounds
Calves	28,123	"
Sheep	852	"
Hogs	1,334	"

Animals Condemned.

Cows	number	1	673	pounds
Calves	"	423	10,825	"
Sheep	"	1	39	"
Hogs	"	3	379	"

The above animals were condemned on account of the discovery of disease after they had been killed and dressed at the slaughter houses. Tuberculosis was discovered in the cow and two of the hogs. Septicæmia was discovered in one hog and pleuro pneumonia in the sheep. All of the calves were condemned as being immature.

Meats.

Beef	4,067	pounds
Venison	80	"
Veal (immature)	831	"
Game and poultry	1,552	"

15 beef livers and 85 rabbits were also condemned.

Fish.

Haddock, cod, mackerel, salmon, etc. : —		
An aggregate of	7,236	pounds
Oysters	13	gals.
Clams	8	bushels
Clams	5	gals.
Lobsters	83	pounds

Vegetables.

Potatoes	9	bushels
Beets	2	"
Tomatoes	2	"
Tomatoes	34	cans
Beans (green)	9	bushels
Turnips	19	"
Carrots	1	"
Onions	54	"
Cabbage	1	barrel
Squash	5	"
Corn (green)	8	bushel
Lettuce	4	"
Spinach	6	"
Asparagus	5	"
Egg plant	12	
Pickles	1-2	barrel

FRUIT.

Apples	26 bushels
Grapes (Malaga)	7 barrels
Grapes	208 baskets
Melons (canteloupe)	17 crates
Berries (straw)	31 "
" (rasp.)	1 "
" (black)	2 "
Currants	1 1-2 "
Cherries	3 "
Pears	5 bushels
Peaches	16 baskets
Oranges	1-2 box
Lemons	1 1-2 "
Pineapples	135
Cranberries	6 1-2 bushels
Bananas	3 bunches
Plums	4 crates
Eggs	13 1-2 dozen

By the provisions of Chapter 75, Revised Laws, adulterated food stuffs are prohibited from being sold, and Section 18 of the aforesaid chapter determines that food shall be deemed to be adulterated among other causes, "If it contains any added antiseptic or preservative substance except common table salt, etc.; but the provisions of this definition shall not apply to any such article if it bears a label on which the presence and percentage of every such antiseptic or preservative substance are clearly indicated, etc."

Previous to the present year this law was not enforced but as a result of my investigation into the manner of sale of prepared meats, mostly hamburg and rolled beef, I notified every storekeeper in the City dealing in these goods, that the goods must be stamped as required by law and since January 1, 1904, all of the goods prepared as aforesaid have been sold bearing the stamp, which gives notice that the meat contains a certain percentage of preservaline or other preserving substance, with a further statement showing the purpose of the use of the preserving ingredient and signed by the name of the person or corporation using the same.

I make particular mention of this matter because I feel that the public should know what is being done to assist them in obtaining pure food, and further because Cambridge was the pioneer City in the Commonwealth to enforce the provision of this law. Since action has been taken by this City, Boston and other municipalities have entered upon a rigorous enforcement of the statute.

Respectfully submitted,

JOSEPH L. JOHNSON,
Inspector of Provisions.

OFFICE OF THE BOARD OF HEALTH,
CAMBRIDGE, December 31, 1904.

To the Board of Health of the City of Cambridge: —

The undersigned Clerk to the Board of Health herewith submits a statement of the expenditures of the Health Department for the financial year ending November 30, 1904.

GENERAL EXPENSES.

Appropriation made by the City Council	$8,700 00

AMOUNT EXPENDED.

Paid Cambridge Hospital for care of 32 scarlet fever cases and 19 typhoid fever	$5,462 50	
Paid Cambridge Hospital for care of one appendicitis case	24 29	
Advertising	60 58	
Ambulance repairs and maintenance	85 25	
Bacteriological supplies	216 60	
Burial of animals	98 00	
Car tickets	450 00	
Chemicals, fumigators and maintenance	670 87	
Express	8 95	
Horse, carriage and ambulance hire	46 25	
J. V. Thompson (Obtaining title)	5 00	
Keep of horse, clipping, shoeing, storage of vehicles, wagon and harness repairs and maintenance	426 70	
Legal services	46 14	
M. R. Jones (Dinners)	5 00	
Printing and postage	317 55	
Public sanitaries	64 90	
Reimbursed other cities and towns	326 92	
Stationery and office supplies	119 41	
Telephones	144 69	
C. S. Newcomb, — labor and lumber	4 13	
Edwin O. Child, — certified copy of deed	91	
City of Boston, — care of syphilis case	33 43	
Burial of diphtheria case	18 50	
		$8,636 57
Balance of appropriation		$63 43

SALARIES.

Original appropriation by the City Council	$12,000 00	
Transferred from smallpox hospital appropriation	120 00	
" " Diphtheria Hospital appropriation	210 00	
" " Contingent Fund	195 00	
		$12,525 00

AMOUNT EXPENDED.

Salary of Medical Inspector and Physician to Board	$3,000 00	
" " Clerk to Board	1,200 00	
" " Secretary	800 00	
" " Bacteriologist	1,080 00	
" " School Inspectors (10)	1,524 79	
" " Sanitary Inspectors (3)	2,912 00	
" " Plumber	981 00	
" " Inspector of Provisions	1,000 00	
Overtime pay to Ex-inspector, George W. White	9 00	
		$12 506 79
Balance of appropriation		$18 21

DIPHTHERIA HOSPITAL.

59 Reservoir Street.

Original appropriation by the City Council		$8,500 00	
Transferred to "Salaries"		210 00	
			$8,290 00
AMOUNT EXPENDED			
Salary of physician	$1,200 00		
" matron	720 00		
" nurses	1,840 00		
" house-man	728 00		
" cook	310 29		
" laundress	318 58		
" house-servant	214 64		
Consulting physician	10 00		
		$5,341 51	
Medical supplies	$201 27		
Furnishings	289 79		
Coal and wood	309 95		
Gas	114 90		
Groceries and provisions	1,412 31		
Milk	218 72		
Ice	62 19		
		2,609 13	
Miscellaneous: —			
Fees (employment bureau)	$2 25		
Garden supplies	7 00		
Paints and varnishes	1 60		
Repairs and materials	159 47		
Telephone	46 56		
Express	1 20		
Burial	25 50		
		243 58	
			8,194 22
Balance of appropriation			$95 78

SMALL-POX.

Original appropriation by the City Council		$1,000 00	
Transferred to "Salaries"		120 00	
			$880 00
AMOUNT EXPENDED.			
Services of attendant		$784 27	
Coal and wood		67 95	
Repairs		7 10	
Oil		11 20	
Hospital supplies		30	
			$870 82
Balance of appropriation			$9 18

Respectfully submitted,

JAMES B. SOPER,
Clerk to Board of Health.

VITAL STATISTICS.

Death Rate per 1,000 Living, from All Causes.
Estimated Population, 100,998.

1895	1896	1897	1898	1899	1900	1901	1902	1903	1904
18.40	18.87	17.93	17.65	17.25	16.87	16.83	15.15	15.23	14.29

The mean annual death rate for the ten years, 1895 to 1904, inclusive, was 16.84.

In calculating death rates, the deaths of non-residents occurring in the City were excluded, and the deaths of residents wherever they occurred were included.

The estimate of population was furnished by the State Board of Health.

The death rate for the year just passed is always a little below the correct rate, as the returns of the deaths of some residents which occurred at a distance from home are not received till after the report has been made up. This error is corrected in the next annual report.

In the division of the City the districts correspond to the old five wards, and the division into the eleven wards is given in the next column.

The figures given above are the crude, or actual death rates, and while comparable with each other, they are not strictly comparable with the death rates of other places, unless the age and sex distribution of the places to be compared are identical.

SCARLET FEVER.

CASES REPORTED.

District.	Ward	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Total.
	8	.....	.....	3	.....	1	1	....	....	2	1	.....	2	10	
1	9	1	1	4	5	2	....	...	....	5	6	.....	.....	24	34
	3	1	2	2	.....	.....	2	....	1	1	.....	.....	3	12	
	4	1	1	.....	.....	.....	....	....	....	....	1	1	2	6	
2.....	5	2	1	.....	2	.....	....	1	....	1	1	.....	.....	8	26
	1	1	.....	.....	.....	.....	....	..	....	....	.....	.....	.....	1	
3.....	2	.....	.....	.....	.....	..	....	....	....	...	....	... ..	.....	0	1
	6	2	2	.....	3	4	2	....	....	2	3	1	3	22	
4.....	7	3	1	10	2	.....	....	3	....	...	3	3	1	26	48
	10	1	1	2	2	1	....	2	..	....	2	1	.....	12	
5.....	11	1	.....	1	2	.....	....	..	....	2	.....	5	3	14	26
		13	9	22	16	8	5	6	1	13	17	11	14		135

The reported cases of Scarlet Fever show a decrease of 53 cases from those reported in 1903.

District 1 shows an increase of 13 cases.
District 2 shows a decrease of 49 cases.
District 3 shows a decrease of 18 cases.
District 4 shows an increase of 10 cases.
District 5 shows a decrease of 9 cases.

Cases Reported Weekly.

Jan.	2	2		July	9	2							
"	9	3		"	16	1							
"	16	4		"	23	2							
"	23	4		"	30	0							
"	30	1		Aug.	6	0							
Feb.	6	4		"	13	0							
"	13	2		"	20	0							
"	20	0		"	27	0							
"	27	3		Sept.	3	2							
Mar.	5	4		"	10	3							
"	12	5		"	17	5							
"	19	8		"	24	2							
"	26	2		Oct.	1	2							
April	2	3		"	8	2							
"	9	9		"	15	7							
"	16	3		"	22	4							
"	23	2		"	29	3							
"	30	2		Nov.	5	5							
May	7	3		"	12	2							
"	14	1		"	19	3							
"	21	1		"	26	2							
"	28	1		Dec.	3	2							
June	4	4		"	10	3							
"	11	2		"	17	2							
"	18	0		"	24	3							
"	25	0		"	31	4							
July	2	2											

Age and Sex Distribution of 131 Cases.

Age.	Males.	Females.	Persons.
Under 1 year	3	1	4
1– 2 year	2	1	3
2– 3 "	8	2	10
3– 4 "	4	7	11
4– 5 "	9	5	14
5–10 "	36	27	63
10–15 "	7	6	13
15–20 "	1	1	2
20–30 "	7	2	9
30–40 "	1	1	2
	78	53	131

Death Rate per 1,000 Living.

1895	1896	1897	1898	1899	1900	1901	1902	1903	1904
0.20	0.07	0.11	0.06	0.08	0.09	0.08	0.09	0.10	0.03

Morbidity, or Sick Rate, per 1,000 Living.

3.59	2.36	2.68	1.38	1.75	1.91	1.07	2.06	1.90	1.33

Fatality, or Case Death Rate, Percentage.

5.80	3.03	4.32	4.91	5.06	5.11	7.92	4.52	5.31	2.22

For the ten years recorded above the mean annual death rate was 0.09; the mean annual morbidity, 2.00; the mean annual fatality, 4.82.

DIPHTHERIA.

CASES REPORTED.

District.	Ward	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Total.
	8	4	1	.....	.....	1	....	....	1	1	.....	3	2	13	
1.....	9	2	.....	.....	.....	1	1	....	..	....	.....	1	1	6	19
	3	17	9	11	8	12	11	3	2	8	2	3	1	87	
	4	7	9	9	11	5	3	....	....	1	2	1	2	50	
2..... ...	5	2	2	4	1	2	....	....	....	....	.....	1	4	16	153
	1	1	3	1	1	2	7	....	1	....	.....	4	4	24	
3.....	2	3	7	1	1	3	5	2	....	....	3	3	.....	28	52
	6	8	7	8	4	4	2	....	2	....	3	.....	2	40	
4.....	7	3	7	7	.....	2	1	....	....	1	1	2	2	26	66
	10	4	2	5	2	....	....	....	1	....	1	1	3	19	
5.....	11	3	6	2	2	2	2	....	....	....	1	.....	3	21	40
		54	53	48	30	34	32	5	7	11	13	19	24		330

The reported cases of Diphtheria show an increase of eight cases over those reported in 1903.

District 1 shows a decrease of 20 cases.
District 2 shows a decrease of 21 cases.
District 3 shows an increase of 27 cases.
District 4 shows an increase of 16 cases.
District 5 shows an increase of 6 cases.

Cases Reported Weekly.

Jan. 2	8	July 9	2
" 9	17	" 16	0
" 16	16	" 23	0
" 23	7	" 30	3
" 30	11	Aug. 6	1
Feb. 6	15	" 13	1
" 13	9	" 20	2
" 20	10	" 27	3
" 27	17	Sept. 3	3
Mar. 5	18	" 10	2
" 12	10	" 17	3
" 19	11	" 24	2
" 26	7	Oct. 1	1
April 2	6	" 8	4
" 9	4	" 15	3
" 16	6	" 22	4
" 23	9	" 29	1
" 30	9	Nov. 5	3
May 7	7	" 12	3
" 14	6	" 19	6
" 21	9	" 26	5
" 28	9	Dec. 3	9
June 4	9	" 10	3
" 11	6	" 17	4
" 18	8	" 24	4
" 25	7	" 31	7
July 2	5		

Age and Sex Distribution of 329 Cases.

Age.	Males.	Females.	Persons.
Under 1 year	4	2	6
1– 2 year	5	11	16
2– 3 "	20	15	35
3– 4 "	17	12	29
4– 5 "	11	18	29
5–10 "	55	50	105
10–15 "	12	31	43
15–20 "	9	6	15
20–30 "	10	23	33
30–40 "	5	11	16
40–50 "	1	0	1
60–70 "	0	1	1
	149	180	329

Death Rate per 1,000 Living.

1895	1896	1897	1898	1899	1900	1901	1902	1903	1904
1.29	0.77	0.60	0.34	0.61	0.78	0.62	0.36	0.28	0.24

Morbidity, or Sick Rate, per 1,000 Living.

7.27	5.43	3.74	1.73	5.58	10.00	6.53	4.77	3.26	3.26

Fatality, or Case Death Rate, Percentage.

17.8	13.6	15.8	19.0	10.9	7.78	9.59	7.60	8.69	7.57

For the ten years recorded above the mean annual death rate was 0.58; the mean annual morbidity, 5.15; the mean annual fatality, 11.83.

TYPHOID FEVER.

CASES REPORTED.

District.	Ward	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Total.
	8	1	.....	.....	.....	.....	.....	.....	2	1	.....	1	1	6	
1.....	9	.....	1	.....	.....	.....	1	.....	2	3	1	1	1	10	16
	3	1	1	3	1	.....	1	1	1	2	2	5	2	20	
	4	2	2	.....	1	.....	.....	.....	6	3	5	4	1	24	
2.....	5	.....	.....	.....	.....	.....	.....	1	.....	2	2	1	.....	6	50
	1	2	.....	2	.....	.....	.....	.....	.....	6	4	.....	1	15	
3.....	2	.....	1	.....	2	.....	.....	.....	.....	4	3	1	.....	11	26
	6	.....	.....	1	.....	1	2	.....	2	7	4	3	3	23	
4.....	7	1	.....	.....	1	.....	.....	1	1	1	2	1	.....	8	31
	10	.....	1	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	3	
5.....	11	1	.....	.....	.....	1	.....	.....	2	2	2	1	1	10	13
		8	6	6	5	2	4	3	16	33	25	18	10		136

The reported cases of Typhoid Fever show an increase of 13 cases over those reported in 1903.

District 1 shows a decrease of 7 cases.
District 2 shows an increase of 3 cases.
District 3 shows an increase of 16 cases.
District 4 shows a decrease of 4 cases.
District 5 shows an increase of 5 cases.

Age and Sex Distribution of 133 Cases.

Age.	Males.	Females.	Persons.
2– 3 years	1	0	1
3– 4 "	0	2	2
4– 5 "	2	0	2
5–10 "	9	2	11
10–15 "	7	11	18
15–20 "	7	6	13
20–30 "	22	20	42
30–40 "	14	7	21
40–50 "	10	7	17
50–60 "	1	5	6
	73	60	133

Death Rate per 1,000 Living.

1895	1896	1897	1898	1899	1900	1901	1902	1903	1904
0.14	0.37	0.14	0.15	0.23	0.16	0.10	0.17	0.14	0.22

Morbidity, or Sick Rate, per 1,000 Living.

1.31	3.04	1.22	1.09	1.11	1.20	1.02	1.32	1.24	1.34

Fatality, or Case Death Rate, Percentage.

11.2	11.7	10.4	14.5	20.0	13.5	10.4	13.28	11.36	16.91

For the ten years recorded above the mean annual death rate was 0.18; the mean annual morbidity, 1.38; the mean annual fatality, 13.32.

MEASLES.

CASES REPORTED.

District.	Ward	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Total.
	8	3	5	4	6	6	4	4	....	....	.....	.....	.....	32	
1.....	9	2	1	10	4	2	7	4	....	....	.....	.....	2	32	64
	3	20	4	10	.....	8	21	8	....	....	.....	1	.....	72	
	4	3	8	17	10	7	....	....	....	....	.....	.....	.....	45	
2.....	5	6	1	4	5	8	....	....	....	....	.....	.....	1	25	142
	1	1	3	4	2	3	....	2	....	....	.....	1	.....	16	
3.....	2	1	3	3	2	3	....	1	....	..	.....	.....	.....	13	29
	6	.....	17	28	5	10	1	1	....	....	.....	.....	.....	62	
4.....	7	20	46	36	19	3	3	....	....	....	.....	.....	.....	127	189
	10	1	.....	5	2	8	6	2	....	....	.....	.....	.....	24	
5.....	11	.....	1	2	4	8	14	4	....	...	.....	.....	.....	33	57
		57	89	123	59	66	56	26	0	0	0	2	3		481

The reported cases of Measles show an increase of 401 cases over those reported in 1903.

District 1 shows an increase of 57 cases.
District 2 shows an increase of 112 cases.
District 3 shows an increase of 9 cases.
District 4 shows an increase of 167 cases.
District 5 shows an increase of 56 cases.

Cases Reported Weekly.

Jan.	2	8	July	9	5
"	9	4	"	16	11
"	16	10	"	23	4
"	23	21	"	30	2
"	30	18	Aug.	6	0
Feb.	6	18	"	13	0
"	13	19	"	20	0
"	20	16	"	27	0
"	27	29	Sept.	3	0
Mar.	5	21	"	10	0
"	12	33	"	17	0
"	19	30	"	24	0
"	26	35	Oct.	1	0
Apr.	2	13	"	8	0
"	9	17	"	15	0
"	16	12	"	22	0
"	23	12	"	29	0
"	30	16	Nov.	5	0
May	7	19	"	12	0
"	14	22	"	19	1
"	21	10	"	26	1
"	28	13	Dec.	3	1
June	4	14	"	10	0
"	11	14	"	17	1
"	18	5	"	24	0
"	25	10	"	31	1
July	2	19			

Age and Sex Distribution of 475 Cases

Age.	Males.	Females.	Persons.
Under 1 year	7	6	13
1– 2 years	16	21	37
2– 3 "	14	14	28
3– 4 "	16	22	38
4– 5 "	19	25	44
5–10 "	121	89	210
10–15 "	7	17	24
15–20 "	5	10	15
20–30 "	24	26	50
30–40 "	4	10	14
40–50 "	1	1	2
	234	241	475

Death Rate per 1,000 Living.

1895	1896	1897	1898	1899	1900	1901	1902	1903	1904
0.03	0.05	0.03	0.01	0.08	0.00	0.10	0.04	0.04	0.07

Morbidity, or Sick Rate, per 1,000 Living.

3.05	2.72	4.78	0.60	5.26	1.50	5.97	4.22	0.80	4.76

Fatality, or Case Death Rate, Percentage.

1.20	2.20	0.73	1.80	1.69	0.00	1.76	0.98	5.00	1.66

For the ten years recorded above the mean annual death rate was 04.0 ; the mean annual morbidity, 3.36 ; the mean annual fatality, 1.70.

CONSUMPTION.

The regulation requiring notification of cases of Consumption has been in operation too short a time to make the returns of value as an index of the prevalence of the disease.

Information gained from a calculation of the Morbidity or Fatality would under existing circumstances be misleading, and therefore worse than useless.

Below are given the number of deaths of males (M), females (F) and all persons (P), and the death rates per 1,000 persons living for the same, in periods of five years, from 1851 to 1900, inclusive. Following the above mentioned entries are similar ones for the individual years 1901 to 1904, inclusive.

Period.	Deaths.			Death Rate.		
	Male.	Female.	Persons.	Male.	Female.	Persons.
1851—1855.....	171	225	396	3.99	4.81	4.42
1856—1860.....	190	283	473	3.41	4.60	4.04
1861—1865.....	218	227	445	3.29	3.09	3.22
1866—1870.....	238	265	503	2.85	2.96	2.90
1871—1875.....	317	358	675	2.96	3.16	3.08
1876—1880.....	316	407	723	2.61	3.09	2.86
1881—1885.....	406	507	913	3.02	3.44	3.24
1886—1890.....	424	456	880	2.70	2.72	2.71
1891—1895.....	492	549	1041	2.64	2.83	2.74
1896—1900.....	494	477	971	2.34	2.12	2.23
1901.....	104	89	193	2.29	1.83	2.05
1902.....	75	109	184	1.61	2.19	1.91
1903.....	74	92	166	1.56	1.81	1.69
1904.....	98	92	190	2.03	1.77	1.88

There were reported during the year 161 cases, the age and sex distribution of which were in 130 instances as follows: —

Age.	Males.	Females.	Persons.
4– 5 years	1	0	1
5–10 "	1	0	1
10–15 "	0	2	2
15–20 "	4	7	11
20–30 "	16	27	43
30–40 "	32	12	44
40–50 "	9	6	15
50–60 "	6	0	6
60–70 "	2	2	4
70–80 "	2	1	3
Total	73	57	130

In the cases of 21 males, and of 6 females, the age was not given.

In two cases aged respectively 32 and 62 years the sex was not given.

In two cases the ages were not given and the sex could not be determined as the initials only of the Christian names were given.

Death Rate per 1,000 Living.

	1895	1896	1897	1898	1899	1900	1901	1902	1903	190
Cancer.....	0.77	0.68	0.54	0.82	0.56	0.75	0.97	0.82	0.70	0.81
Diarrhœal diseases.	1.69	2.41	2.21	2.00	1.35	1.51	0.97	0.99	0.98	1.10
Whooping-cough...	0.13	0.21	0.19	0.25	0.31	0.13	0.11	0.09	0.16	0.02
Bronchitis.....	0.50	0.70	0.62	0.52	0.56	0.52	0.37	0.40	0.41	0.34
Pneumonia	1.40	1.91	1.20	1.66	1.81	1.65	1.84	1.70	1.85	1.44

The mean annual death-rate for the ten years recorded above was of cancer, 0.74; of diarrhoeal diseases, 1.51; of whooping-cough, 0.16; of bronchitis, 0.49; of pneumonia, 1.64.

RETURN OF DEATHS (NON-RESIDENTS OMITTED).

Age and Sex Distribution.

Age.	Males.	Females.	Persons.
0- 1 year	165	131	296
1- 2 years	27	31	58
2- 3 "	11	11	22
3- 4 "	7	8	15
4- 5 "	11	6	17
5-10 "	12	10	22
10-15 "	6	12	18
15-20 "	20	24	44
20-30 "	63	52	115
30-40 "	71	75	146
40-50 "	64	55	119
50-60 "	67	72	139
60-70 "	80	107	187
70-80 "	68	75	143
Over 80 "	37	66	103
Total	709	735	1,444

Monthly Distribution of Deaths.

January	163	August	108
February	119	September	130
March	146	October	123
April	128	November	119
May	100	December	128
June	88		
July	92		1,444

Causes.

	Males.	Females.	Persons.
Bronchitis	12	23	35
Pneumonia	77	69	146
Cancer	25	57	82
Cerebro-spinal Menigitis	3	3	6
Cholera Infantum	13	15	28
Diarrhoea and Cholera Morbus	41	40	81

	Males.	Females.	Persons.
Dysentery	1	2	3
Diphtheria	13	12	25
Erysipelas	1	4	5
Fever, Scarlet	2	1	3
Fever, Typhoid	15	8	23
Influenza	1	8	9
Measles	3	5	8
Malignant Pustule	1	0	1
Phthisis	98	92	190
Whooping-cough	1	2	3
Diseases of Brain and Spinal Cord	74	78	152
" Heart	98	95	193
" Kidney	32	34	66
Accident	40	12	52
Suicide	4	4	8
Unknown and Ill-defined	32	36	68
All other causes	122	135	257
Total	709	735	1,444
Still-births	50	41	91

EDWIN FARNHAM, M. D.,
Medical Inspector and Physician to the Board.

REPORT OF THE SCHOOL COMMITTEE FOR 1904

In compliance with Section 44 of the Rules of the School Board, the Superintendent herewith submits his thirtieth annual report, it being for the year ending December 31, 1904: —

Population of Cambridge.

1875	47,838	1895	81,643
1885	59,658	1900	91,886
1904 (estimated)	97,826		

School Census.

Number of children in the city five years old or more, but less than fifteen.

1885 (taken in May)	10,957	1895 (taken in May)	12,869
1890 (taken in May)	11,971	1904 (taken in September)	15,678

Schools and Class Rooms.

Latin School	1	Class rooms in use	15
English High School	1	" " "	11
Manual Training School	1	" " "	10
Grammar Schools	7	" " "	92
Primary Schools	16	" " "	80
Grammar and Primary Schools	10	" " "	113
Kindergartens	15	" " "	14
Evening Drawing Schools	2	" " "	5
Evening High School	1	" " "	10
Evening Elementary Schools	4	" " "	27
Whole number of Day Schools			51
Number of class rooms for Day Schools			335

Number of Teachers in the Day Schools.

[Special teachers are included in the total.]

December	Latin School	English High School	Manual Training School	Grammar Schools	Primary Schools	Kinder-gartens	Total
1900	22	24	14	173	142	26	409
1901	22	24	14	177	143	25	413
1902	24	24	15	179	140	25	417
1903	23	24	16	183	142	29	428
1904	23	24	19	187	142	29	435

ATTENDANCE AT ALL THE DAY SCHOOLS.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1900	16,203	13,816	12,684	91.8
1901	16,065	14,144	13,021	92.1
1902	16,341	14,244	13,215	92.8
1903	16,394	14,397	13,250	92.0
1904	16,257	14,454	13,361	92.4

ATTENDANCE AT THE LATIN SCHOOL.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1900	430	404	385	95.2
1901	490	468	449	96.1
1902	488	465	441	95.1
1903	501	474	451	94.9
1904	516	487	465	95.5

ATTENDANCE AT THE ENGLISH HIGH SCHOOL.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1900	572	514	491	95.6
1901	613	517	490	94.8
1902	577	498	464	93.1
1903	583	493	470	95.3
1904	605	556	530	95.4

ATTENDANCE AT THE MANUAL TRAINING SCHOOL.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1900	212	192	183	95.5
1901	217	191	184	96.2
1902	254	242	229	94.4
1903	300	262	251	95.9
1904	351	315	302	95.9

ATTENDANCE AT THE GRAMMAR SCHOOLS.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1900	7,192	6,295	5,891	93.6
1901	7,044	6,483	6,079	93.8
1902	7,359	6,711	6,316	94.1
1903	7,279	6,725	6,306	93.8
1904	7,322	6,701	6,316	94.3

Attendance at the Primary Schools.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1900	6,888	5,788	5,267	91.0
1901	6,815	5,840	5,310	90.9
1902	6,687	5,708	5,249	92.0
1903	6,711	5,755	5,227	90.8
1904	6,534	5,705	5,194	91.0

Attendance at the Kindergartens.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1900	909	623	467	74.9
1901	886	645	509	78.9
1902	976	620	516	83.2
1903	1,020	688	545	79.2
1904	929	690	554	80.2

Number of Pupils Admitted to the Lowest Grade of the Latin School.

Course, 5 years.

Year	Boys	Average Age	Girls	Average Age
1900	84	14 years 5 months	70	14 years 5 months
1901	57	14 years 6 months	58	14 years 2 months
1902	60	14 years 5 months	88	14 years 4 months
1903	65	14 years 4 months	80	14 years 5 months
1904	67	14 years 5 months	91	14 years 7 months

Number of Pupils Graduated from the Latin School

Course, 5 years.

Year	Boys	Average Age	Girls	Average Age
1900	20	18 years 11 months	19	18 years 11 months
1901	22	18 years 7 months	34	19 years 0 months
1902	23	19 years 1 month	39	18 years 9 months
1903	18	18 years 4 months	31	18 years 10 months
1904	19	18 years 1 month	31	18 years 9 months

NUMBER OF PUPILS ADMITTED TO THE LOWEST GRADE OF THE ENGLISH HIGH SCHOOL.

Year	Boys	Average Age	Girls	Average Age
1900	56	15 years 5 months	170	15 years 1 month
1901	46	14 years 11 months	145	15 years 0 months
1902	41	14 years 8 months	155	15 years 1 month
1903	58	14 years 8 months	192	15 years 0 months
1904	24	14 years 5 months	186	15 years 0 months

NUMBER OF PUPILS GRADUATED FROM THE ENGLISH HIGH SCHOOL.

Year	Boys	Average Age	Girls	Average Age
1900	23	18 years 2 months	45	18 years 8 months
1901	13	18 years 3 months	47	18 years 9 months
1902	25	18 years 7 months	61	18 years 9 months
1903	15	18 years 8 months	58	18 years 7 months
1904	12	18 years 7 months	64	18 years 9 months

NUMBER OF PUPILS ADMITTED TO THE LOWEST GRADE OF THE MANUAL TRAINING SCHOOL, WITH THE NUMBER OF GRADUATES.

Year	Admitted	Average Age	Graduated	Average Age
1900	74	15 years 0 months	16	19 years 0 months
1901	110	15 years 2 months	21	18 years 3 months
1902	127	15 years 2 months	23	19 years 2 months
1903	144	15 years 2 months	38	18 years 7 months
1904	194	15 years 0 months	30	18 years 3 months

NUMBER OF PUPILS GRADUATED FROM THE GRAMMAR AND PRIMARY SCHOOLS.

Year	Grammar Schools. Course, 6 yrs.	Average Age	Primary Schools. Course, 3 yrs.	Average Age
1900	582	14 years 11 months	1,423	9 years 7 months
1901	565	14 years 11 months	1,467	9 years 7 months
1902	643	14 years 11 months	1,460	9 years 6 months
1903	648	14 years 9 months	1,428	9 years 5 months
1904	708	14 years 10 months	1,444	9 years 6 months

LENGTH OF TIME IN COMPLETING THE COURSE OF STUDY IN THE GRAMMAR SCHOOLS.

Year	In 4 years	In 5 years	In 6 years	In 7 years or more
1900	6 per cent	28 per cent	50 per cent	16 per cent
1901	6 per cent	28 per cent	50 per cent	16 per cent
1902	7 per cent	27 per cent	51 per cent	15 per cent
1903	6 per cent	26 per cent	53 per cent	15 per cent
1904	5 per cent	28 per cent	52 per cent	15 per cent

LENGTH OF TIME IN COMPLETING THE COURSE OF STUDY IN THE PRIMARY SCHOOLS.

Year	In 2 years	In 2½ years	In 3 years	In 3½ years	In 4 years	In 4½ years or more
1900	2 per cent	2 per cent	59 per cent	6 per cent	22 per cent	9 per cent
1901	3 per cent	1 per cent	61 per cent	5 per cent	20 per cent	10 per cent
1902	2 per cent	2 per cent	62 per cent	4 per cent	20 per cent	9 per cent
1903	3 per cent	2 per cent	60 per cent	5 per cent	22 per cent	8 per cent
1904	3 per cent	3 per cent	54 per cent	6 per cent	24 per cent	10 per cent

NUMBER OF PUPILS IN THE LATIN SCHOOL, DECEMBER, 1904.

Grade	Boys	Girls	Total	Per cent
Fourteenth	41	32	73	.133
Thirteenth	40	36	76	.139
Twelfth	38	70	108	.197
Eleventh	51	71	122	.223
Tenth	74	95	169	.308
Total	244	304	548	

NUMBER OF PUPILS IN THE ENGLISH HIGH SCHOOL, DECEMBER, 1904.

Grade	Boys	Girls	Total	Per cent
Thirteenth	14	70	84	.148
Twelfth	22	81	103	.181
Eleventh	23	133	156	.274
Tenth	27	187	214	.376
Specials	3	9	12	.021
Total	89	480	569	

Number of Pupils in the Manual Training School, December, 1904.

Grade	Boys		Per cent
Thirteenth	50	This school is for boys	.122
Twelfth	81	only. It became a part	.197
Eleventh	95	of the public school sys-	.231
Tenth	185	tem, January 1, 1899.	.450
Total	411		

Number of Pupils in the Grammar Schools, December, 1904.

Grade	Boys	Girls	Total	Per cent
Ninth	292	369	661	.094
D	57	54	111	.016
Eighth	371	470	841	.119
C	88	94	182	.026
Seventh	448	511	959	.136
Sixth	585	573	1,158	.164
B	113	131	244	.035
Fifth	593	627	1,220	.173
A	141	200	341	.048
Fourth	697	631	1,328	.189
Total	3,385	3,660	7,045	

Number of Pupils in the Primary Schools, December, 1904.

Grade	Boys	Girls	Total	Per cent
Third	916	790	1,706	.296
Second	1,025	820	1,845	.320
First	1,168	1,041	2,209	.384
Total	3,109	2,651	5,760	

Number of Pupils and Teachers in the Kindergartens.

Year	Boys	Girls	Total	Number of Teachers
1902	358	364	722	25
1903	383	381	764	29
1904	378	364	742	29

NUMBER OF PUPILS BELONGING TO THE EVENING DRAWING SCHOOLS, WITH THE AVERAGE ATTENDANCE.

1899	1900	1901	1902	1903	1904
194	184	193	220	187	167
99	99	97	114	98	102

NUMBER OF PUPILS BELONGING TO THE EVENING SCHOOLS, WITH THE AVERAGE ATTENDANCE.

1899	1900	1901	1902	1903	1904
1,158	1,248	1,286	1,367	1,664	1,795
452	420	464	510	625	720

NUMBER OF PUPILS IN THE PRIVATE SCHOOLS IN CAMBRIDGE, INCLUDING THOSE IN THE PAROCHIAL SCHOOLS.

1899	1900	1901	1902	1903	1904
2,713	3,004	3,439	3,451	3,711	4,047

NUMBER OF AGE AND SCHOOLING CERTIFICATES ISSUED.

1899	1900	1901	1902	1903	1904
324	380	387	507	565	578
			*354	*655	*859

* Issued to minors over sixteen years of age, in accordance with the law of 1902.

Cost of Instruction from 1840 to 1874.

[In obtaining the cost per pupil for these years the number of pupils belonging to the schools in December has been used, as the average number cannot be obtained.]

Year	Number of Teachers	Number of Pupils	Whole Cost	Cost per Pupil
1840	20	1,388	$6,747 00	$4 86
1841	22	1,635	7,309 67	4 47
1842	23	1,871	8,374 32	4 47
1843	28	1,918	9,003 00	4 69
1844	31	2,000	9,609 75	4 80
1845	37	2,151	11,558 37	5 37
1846	38	2,227	12,940 00	5 81
1847	39	2,228	14,025 00	6 29
1848	43	2,408	16,996 42	7 05
1849	46	2,561	18,900 00	7 37
1850	49	2,597	20,025 00	7 71
1851	54	2,738	21,925 00	8 00
1852	58	2,929	23,125 00	7 89
1853	61	2,966	24,225 00	8 16
1854	62	3,047	27,216 55	8 93
1855	64	3,196	28,325 50	8 86
1856	70	3,289	29,425 00	8 94
1857	72	3,366	32,885 00	9 76
1858	78	3,744	34,075 00	9 10
1859	84	4,145	36,300 00	8 75
1860	88	4,417	37,550 00	8 50
1861	92	4,589	39,300 00	8 56
1862	93	4,851	39,650 00	8 17
1863	99	5,077	42,425 00	8 37
1864	105	5,277	56,675 00	10 74
1865	108	5,335	71,350 00	13 37
1866	115	5,578	75,975 00	13 62
1867	125	5,864	82,900 00	14 13
1868	134	6,167	91,400 00	14 82
1869	137	6,187	95,650 00	15 45
1870	145	6,483	105,250 00	16 23
1871	156	6,840	125,650 00	18 36
1872	165	7,133	137,900 00	19 33
1873	172	7,379	143,000 00	19 46
1874	184	7,816	157,550 00	21 35

Cost of Instruction in the Day Schools.

[Salaries of teachers, superintendent, supervisor, agent, clerks, and truant officers.]

Year	Number of Teachers in December	Average Number of Pupils	Whole Cost	Cost per Pupil
1876	176	7,066	$164,818 00	$23 32
1880	182	7,175	130,371 75	18 17
1884	216	8,414	152,290 62	18 09
1888	241	9,756	175,773 80	18 02
1892	284	10,861	207,144 22	19 07
1894	312	11,166	228,873 48	20 50
1896	337	11,957	245,104 01	20 50
1898	364	12,907	268,182 97	20 78
1900	409	13,816	326,512 34	23 63
1901	413	14,144	336,149 80	23 77
1902	417	14,244	343,787 00	24 14
1903	428	14,397	349,179 80	24 25
1904	435	14,454	356,406 89	24 66

Cost of the Day Schools.

[This includes the cost of instruction, of text-books and supplies, of incidental expenses, of the care of truants, of the care and *repair of schoolhouses, and of the transportation of pupils.]

Year	Number of Teachers in December	Average Number of Pupils	Whole Cost	Cost per Pupil
1876	176	7,066	$200,894 09	$28 43
1880	182	7,175	153,967 56	21 45
1884	216	8,414	203,234 56	24 15
1888	241	9,756	225,408 57	23 10
1892	284	10,861	266,651 02	24 55
1894	312	11,166	287,137 37	25 72
1896	337	11,957	316,090 83	26 44
1898	364	12,907	345,566 30	26 77
1900	409	13,816	417,554 00	30 22
1901	413	14,144	429,208 22	30 35
1902	417	14,244	427,356 71	30 00
1903	428	14,397	429,554 39	29 84
1904	435	14,454	450,310 44	31 15

Cost of Instruction in the Evening Schools.

Year	Elementary	High	Drawing	Total
1900	$3,375 00	$1,874 00	$1,430 00	$6,679 00
1901	2,777 50	1,551 75	1,205 00	5,534 25
1902	3,218 50	1,682 75	1,298 00	6,199 25
1903	5,000 50	1,683 00	1,428 00	8,111 50
1904	5,708 00	1,577 50	1,345 00	8,628 50

* In accordance with the statutory definition of the support of public schools, the cost of the repair of schoolhouses has not been included in the cost of the schools since 1902 and will not be in the future.

Finances.

(For the financial year ending December 1, 1904.)

Cost of instruction in day schools	$356,406 89
Cost of instruction in evening schools	8,628 50
Cost of care of buildings, day schools	61,215 16
Cost of care of buildings, evening schools	2,475 55
Cost of text-books and supplies, day schools	28,135 04
Cost of text-books and supplies, evening schools	403 23
Expended for care of truants	2,184 43
Expended for flags	105 60
Expended for incidentals	1,942 32
Expended for transportation of pupils	321 00
Expended for vacation schools	1,957 43
Expended on Kelley schoolhouse	789 87
Expended on Fletcher schoolhouse	48,973 55
Expended on Houghton schoolhouse	8,311 75
Expended on Rindge Manual Training schoolhouse	7,144 98
Expended on Washington schoolhouse	4,698 05
Expended for furniture	1,394 32
Expended for permanent improvements	5,999 15
Expended for alterations and ordinary repairs	23,245 68
	$564,332 50
Deducting from the above the amount received from the Hopkins Fund, $687.74, the tuition of State and Boston City Wards, $937, the tuition of non-resident pupils, $5,402, the amount received from sales and damages of books, $633.14, and sales of old materials, $317.86	7,977 74
The actual cost of the schools to the city is	$556,354 76
Assessed value of real and personal estates, May, 1904	$104,827,600 00
Ratio of expenditure for school purposes to the valuation of 1904	.0053

TABULAR VIEW.

DECEMBER 31, 1904.

Prepared by the Secretary of the School Committee.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1904.
Latin	William F. Bradbury	$3,000	548
	*Theodore P. Adams	2,000	
	Edwin L. Sargent	2,000	
	John I. Phinney	2,000	
	Max Benshimol	1,800	
	Helen M. Albee	950	
	Constance Alexander	950	
	Mary A. Bachelder	950	
	Alice C. Baldwin	950	
	Almira W. Bates	750	
	Margaret S. Bradbury	750	
	Isabel S. Burton	950	
	Alice D. Chamberlain	800	
	Grace C. Davenport	700	
	Etta L. Davis	850	
	Caroline Drew	950	
	Mary C Hardy	950	
	Rose Hardwick	950	
	Mabel E Harris	950	
	Helen W. Munroe	950	
	Louisa P. Parker	950	
	Lena G. Perrigo	950	
	Ethel V. Sampson	850	
	Jennie S. Spring	950	
	†Annie S. Dodge	600	
English High	Ray Greene Huling	3,000	569
	Joseph A. Coolidge	1,700	
	Francis L. Bain	1,000	
	Chester M. Grover	1,400	
	Grace L. Deering	1,200	
	Caroline Close	950	
	Bertha L. Cogswell	950	
	Gertrude H. Crook	950	
	Mary L. Cunningham	800	
	Esther S. Dodge	950	
	Agnes B Goerwitz	900	
	Ellen P. Huling	600	
	Katherine H. James	800	
	Jeannie B. Kenrick	850	
	Maud A. Lawson	950	
	Henrietta E. McIntire	950	
	Mary Moulton	950	
	Lillian C. Rogers	950	
	Caroline A. Sawyer	950	
	Emma A. Scudder	950	
	Florence W. Smith	950	
	Martha R. Smith	950	
	Delia M. Stickney	1,200	

* On leave of absence in accordance with Section 69 of the Rules of the School Committee.
† Secretary and Librarian.

Tabular View — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1904.
English High, Continued..	Annie F. Stratton	$850	
	*Martha L Babbitt	600	
Rindge Manual Training...	Charles H. Morse	3,000	411
	Myra I. Ellis	1,300	
	Helen W. Metcalf	950	
	Mabel D. Watson	800	
	John E. Denham	1,000	
	Adolph C. Ely	1,100	
	Richard H. Gallagher	1,200	
	Evan W. Griffiths	1,050	
	Lewis D. Hill	1,500	
	James E. MacWhinnie	1,150	
	Edward R Markham	1,500	
	Joseph M. Norton	1,100	
	Harry E Rich	850	
	Walter M. Smith	1,200	
	Charles E. Stratton	1,000	
	James G. Telfer	1,500	
	Albert L. Ware	1,300	
	Percy F. Williams	1,000	
	John W. Wood, Jr.	1,500	
	*Myrta E Smith	600	
Agassiz, Grammar	Maria L. Baldwin	1,000	147
Agassiz, Primary	Edith C. Arey	700	117
	Addie B. Byam	700	
	Frances W. Dawson	700	
	Lillian G. Goodwin	700	
	Mary A. Parsons	700	
	Grace C Stedman	700	
	Agnes L. Tracy	600	
Boardman, Primary.....	Elizabeth J. Karcher	790	353
	Mabel E. Blake	700	
	Nellie B. Blodgett	600	
	Harriette G. Gilmore	600	
	Blanche M. Gould	450	
	Malvina M Joslin	700	
	Jennie B. Ross	500	
	Lucy A. Witham	650	
Cushing, Primary.....	Susan E. Wyeth	760	84
	Margaret E. Sheehan	600	
Ellis, Grammar.....	Edward O. Grover	2,000	539
	Nellie A. Hutchins	900	
	Caroline L. Blake	800	
	Adelaide G. Bunker	750	
	Emma A. Faulkner	700	
	Harriet Foster	700	
	Lottie L. Griswold	700	
	Louise H. Griswold	700	
	Ellen J. Hunt	700	
	Flora C. Ingraham	700	

* Secretary and Librarian.

TABULAR VIEW — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1904.
Ellis, Continued	Ida J. Mahoney	$500	
	Sarah W. Mendell	700	
	Mary A. Stephenson	700	
	Josephine C. Wyman	700	
Felton, Primary	C. Florence Smith	770	160
	Marcia R. Bowman	700	
	S. Emma Davis	700	
	Carrie H. Smith	700	
Fletcher, Grammar	George L Farley	1,600	137
Fletcher, Primary	Mary I. Chapin	650	448
	Ellen A. Cheney	700	
	Mary A. Doran	700	
	Mary N. Flewelling	450	
	Katherine A. Gaskill	650	
	Mary Godsell	450	
	Elmira F. Hall	700	
	Frances E Higgins	700	
	Martha B. Perkins	550	
	Marion Prescott	700	
	Susan L. Senter	700	
	Eva A. Taylor	700	
	Emma G. Wentworth	550	
Gannett, Primary	Mary A. Rady	775	176
	Annie M. Billings	700	
	Margaret F. Sanderson	650	
	Gertrude T. Sullivan	600	
Gore, Primary	Frances E. Pendexter	810	450
	Charlotte A. Callahan	650	
	Katherine L. Dolan	700	
	Mary L. Dolan	700	
	Minnie A. Doran	700	
	Kate A. Hegarty	700	
	Katherine L. McElroy	700	
	Julia G. McHugh	700	
	Mary E Mulloney	700	
	Anastasia Peters	700	
	Nora E Reardon	650	
Harvard, Grammar	Thomas W. Davis	2,000	704
	Margaret B. Wellington	900	
	Nellie A. Coburn	750	
	Annie M. Street	750	
	Addie L. Bartlett	700	
	Winifred V. Cobb	700	
	Frances Fabyan	700	
	Margaret M. Fearns	700	
	Estella J French	700	
	Mary F. Hill	450	
	Annie B. Lowell	700	
	Josephine MacDonald	700	
	Waitie M. Nash	700	
	Laura L. Parmenter	700	

Tabular View — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1904.
Harvard, Continued.....	Louise C. Patterson.....	$700	
	Annie L. Prince.....	650	
	Elizabeth L. Setchell.....	700	
	Hortense O. Young.....	700	
Holmes, Primary.....	Catherine M. Doran.....	650	65
	Abby S. Taylor.....	500	
Kelley, Grammar.....	Everett L. Getchell.....	2,000	392
Kelley, Primary.....	H. Warren Foss.....	1,000	302
	Ella S Danforth.....	900	
	Anna W. Browning.....	450	
	Josephine Day.....	700	
	Maude M. Dutton.....	700	
	Lucy M. Fletcher.....	700	
	Carrie M. Ford.....	500	
	Jennie C. Hardy.....	700	
	Emma J. Houlahan.....	600	
	Ellen A. Kidder.....	700	
	Catherine A. McLean.....	700	
	Mary E. Moran.....	450	
	Ethel I. Murch.....	700	
	Eva G. Oakes.....	700	
	Esther D. Paul.....	700	
	Carrie L. Power.....	700	
	Mary E. Regan.....	700	
Lassell, Primary.....	Frances E. Whoriskey.....	765	141
	Rose V. Collier.....	700	
	Mary E. Whoriskey.....	700	
Lowell, Primary.....	Eusebia A. Minard.....	765	75
	Agnes J. McElroy.....	700	
Merrill, Primary.....	Louise W. Harris.....	785	260
	Julia M. Davis.....	650	
	Henriette E. de Rochemont.....	700	
	Daisy E. Haynes.....	650	
	Marion B. Magwire.....	700	
	Gertrude S. Thayer.....	500	
	Nellie F. Walker.....	700	
Morse, Grammar.....	Mary A. Townsend.....	2,000	547
Morse, Primary.....	Mary E. Towle.....	900	226
	Marcia E. Ridlon.....	800	
	Ida J. Holmes.....	750	
	Ella T. Arnold.....	450	
	Elizabeth J. Baldwin.....	700	
	Edith M. Carman.....	450	
	Christina R. Denyven.....	700	
	Florence L. Gould.....	450	
	Ida M. Holden.....	650	
	Florence E. Hunter.....	700	
	Alice E. May.....	700	
	Helen Montague.....	650	
	Anna A. O'Connell.....	700	

Tabular View — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1904.
Morse, Continued	Ella M. Pinkham	$700	
	Elizabeth H. Richards	700	
	Mary E. Sawyer	700	
	Lucy M. Soulée	700	
	Bertha J. Waldron	550	
	Mary E. Warren	700	
Otis, Primary	Ellen N. Leighton	785	276
	Frances Allen	700	
	Anna E. Callahan	700	
	Josephine M. Doherty	700	
	Luella M. Marsh	700	
	Anna N. Sullivan	600	
	Margaret Sullivan	700	
	Ellen C. Walsh	700	
Parker, Primary	Mary A. Knowles	780	246
	Lillian M. Cuddy	450	
	Mattie S. Cutting	700	
	Harriet R. Harrington	700	
	Agnes Marchant	700	
	Mary E Mullins	500	
	Mary E. White	550	
Peabody, Grammar	Frederick S. Cutter	2,000	366
Peabody, Primary	Charlotte A. Ewell	900	181
	Mabel R. Coombs	800	
	Susan C. Allison	700	
	Anna F. Bellows	700	
	Katherine L. Carr	700	
	Grace LeBaron Esty	600	
	Ruth D. Foxcroft	500	
	Helen E. Hazard	700	
	Martha A. Parker	650	
	Bertha L. Stratton	500	
	Isadore M Thompson	500	
	Dora Trefethen	700	
	Alice M. Tufts	700	
Putnam, Grammar	Frederick B. Thompson	2,000	643
	George B. Colesworthy	1,100	
	Eliza M. Hussey	900	
	Eliza S. Paddack	800	
	Grace Clark	750	
	Mary A. Carmichael	700	
	Anna L. P. Collins	700	
	Sarah M. Grieves	700	
	Hattie L. Jewell	700	
	Annie B. Josselyn	700	
	Nellie A. Kerrigan	500	
	Mary A. Macklin	550	
	Katharine I. Nicolson	700	
	Margaret T. O'Keefe	650	
	Annie A. Trelegan	700	
	Minnie F. Wilson	650	

TABULAR VIEW — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1904.
Reed, Primary	Margaret T. Burke	$770	157
	Elizabeth G. Nelligan	700	
	Julia A. Robinson	700	
	Clara W. Ruggli	650	
Riverside, Primary	Elizabeth A. Tower	770	149
	Amanda M. Alger	700	
	Mary A. Burke	700	
Roberts, Grammar	W. Mortimer MacVicar	2,000	574
	Sara A Bailey	900	
	Emily R. Pitkin	750	
	Susan M Adams	700	
	Beatrice Bennett	450	
	Mary Blair	700	
	Elizabeth M. Breslin	600	
	Mary M. Brigham	700	
	Susan L. Keniston	700	
	Evelyn B. Kenney	700	
	Ada M. Litchfield	700	
	Nina M. Marsh	700	
	Clara E. Phinney	550	
	Ida G. Smith	700	
	Caroline M. Williams	700	
Russell, Grammar	Arthur C. Wadsworth	2,000	354
Russell, Primary	Mary S. Bingham	800	105
	Carrie J. Allison	700	
	Fannie P. Browning	700	
	Ella E. Buttrick	700	
	Mary A. Connelly	700	
	Louise F. James	450	
	Anna M. Lyons	550	
	Louise I. MacWhinnie	500	
	M. Ursula Magrath	650	
	H. Maud McLean	700	
	Gertrude E. Russell	700	
Shepard, Grammar	Evelyn J. Locke	900	184
Shepard, Primary	Mary F. Calnane	700	132
	Alice M. Gage	700	
	Mary M. Gilman	700	
	Theresa H. Mahoney	700	
	Ellen O'Keefe	600	
	Annie E. Welch	500	
	Florence E. Worthing	650	
Sleeper, Grammar	A. Estelle Ingraham	900	131
Sleeper, Primary	Emily Bissell	700	181
	Butella E. L. Conland	700	
	Evelyn M. Dormer	700	
	Elizabeth O. Haynes	650	
	Melissa M. Lloyd	700	
	Margaret E Quinn	600	
	Blanche C. Trefethen	700	

Tabular View — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1904
Tarbell, Primary	Emma J. Young	$770	194
	Florence J. Alley	700	
	Carrie P. Pierce	700	
	Anna H. Welsh	600	
Taylor, Grammar	Ella R Avery	950	131
Taylor, Primary	Mary A. Boland	700	256
	Bridget T. Boyle	700	
	Lillian M. Canty	700	
	Lillian W. Davis	550	
	Elizabeth B. Gahm	700	
	Cecilia F. Leahy	700	
	Mary A. Maguire	500	
	Eleanor M. Stevens	550	
	Mabelle S. Welsh	650	
Thorndike, Grammar	Ruel H. Fletcher	2,000	535
	Harriet A. Townsend	900	
	Laura A. Westcott	750	
	Flora E. Cooter	550	
	Jennie W. Cronin	550	
	Grace W. Fletcher	700	
	Margaret J. Griffith	550	
	Harriet M. Hanson	700	
	Eulalia L. Herald	650	
	Lillian H. Kenney	600	
	Edith M. O'Brien	450	
	Ellen M. Plympton	700	
	Mabel A. Short	600	
	Lydia A. Whitcher	700	
Washington, Grammar	John W. Freese	2,000	448
	Blanche E. Townsend	900	
	Alice P. Fay	750	
	Grace S. Beckwith	600	
	Katherine F. Callahan	550	
	Mary I. Ells	700	
	Katharine M. Greene	450	
	Winifred L. Kinsley	700	
	Emma Penney	700	
	Margaret J Penney	700	
	Bessie H. Pike	700	
	Hattie Shepherd	700	
Webster, Grammar	John D. Billings	2,000	770
	H. Herbert Richardson	1,000	
	Alice C. Phinney	900	
	Martha N. Hanson	800	
	Ada A. Billings	750	
	Mabel T. Ashley	700	
	Charlotte M. Chase	700	
	Fanny F. Curtis	700	
	Susan I. Downs	700	
	Gertrude B. Duffy	650	
	Josephine Hills	700	
	Gertrude I. Johnson	700	

Tabular View — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1904.
Webster, Continued.....	Minnie V. Reid.....	$700	
	Harriette E. Shepard.....	700	
	Olive L. Slater.....	700	
	Maud A. Sumner.....	700	
	Ellen F. Watson.....	700	
	Katherine L Wight	700	
Wellington, Grammar....	Herbert H Bates.....	2,500	443
Wellington, Primary	Sarah J. Gunnison.....	1,000	278
	Margaret Kidd	1,000	
	Mary I. Vinton.....	1,000	
	Carrie H. Stevens.....	900	
	Grace F. Chamberlain.....	700	
	Training Class	7,953	
Willard, Primary	Katharine E. Hayes.....	810	529
	Agalena Aldrich	550	
	Sally N. Chamberlain.....	700	
	Elizabeth M. Crowley.....	600	
	M. Elizabeth Evans	700	
	Ella F. Gulliver.....	700	
	Julia S. Gushee.....	700	
	Mary E. G. Harrington.....	700	
	Katherine M Lowell.....	700	
	Mary A. O'Hara.....	700	
	Belle Menard	700	
	Eliza D. Watson.....	700	
	Grace R. Woodward.....	700	
Wyman, Primary.....	Addie M. Bettinson.....	730	219
	Maria J. Bacon.....	700	
	Mary H. Brooks.....	700	
	Georgianna P. Dutcher.....	700	
	Genevieve S. Flint.....	700	
	Agnes Smith White	650	
Kindergartens: Boardman.....	Mary B. Pratt.....	700	53
	Hattie P. Russell.....	600	
Corlett	*Sarah S. Wells.....	700	41
	Annie M. Dodd	600	
Gannett.....	Carrie E. Shepherd.....	700	51
	Marion L. Akerman.....	600	
Gore.....	Selma E. Berthold.....	700	58
	Freedrica Mark.....	500	
Holmes	Clara A. Hall.....	700	16
Lowell.....	Melinda Gates..	700	35
	Annie L. Crane.....	500	
Merrill.....	Caroline A. Leighton.....	700	55
	Gretchen K. Hager.....	600	
Peabody.....	Julia L. Frame.....	700	50
	Irene L Phelps.....	450	
Riverside.....	Edith L. Lesley.....	700	57
	Olive M. Lesley.....	600	

* Died Jan. 16, 1905.

Tabular View — Concluded.

Names of Schools		Teachers.	Salaries	No. of Pupils Dec. 31, 1904.
Kindergartens	Shaw	Harriette E. Ryan	$700	62
		Leonice S. Morse	600	
	Sleeper	Mabel S. Adams	700	57
		Caroline E. Simpson	600	
	Taylor	Mary F. Leland	700	61
		Della E. Cabot	550	
	Wellington	Gertrude M. Gove	700	44
		Florence Rice	600	
	Willard, A. M.	Alice V. McIntire	700	51
		Anna M. Gage	550	
	Willard, P. M.	Jennie S. Clough	700	51
		Eva C. Katon	500	

Teachers of Music —	Agnes Gordon	$700
	Alice H. Nay	600
	Nancy T. Dawe	600
Director of Music —	Frederick E. Chapman	2,000
Assistant in Music —	Georgia E. Martin	850
Director of Drawing —	Peter Roos	2,000
Assistant in Drawing —	Lucia N. Jennison	800
Director of Nature Study —	Sarah E. Brassill	1,000
Director of Physical Training —	Sara E. Boudren	950
Instructor of Physical Training in the High Schools —	Bessie W. Howard	800
Superintendent —	Francis Cogswell	3,500
Supervisor of Primary Schools —	Mary A. Lewis	1,300
Permanent Substitute in Primary Schools —	Mary A. Driscoll	450
Assistant in Primary Schools —	Hattie A. Thayer	550
Agent —	Sanford B. Hubbard	2,100
Clerks —	Althea B. Frost	750
	Sadie E. Kimball	600
Porter —	John Lemon	600
Truant Officers —	Lucian S. Cabot	1,000
	John Carmichael	1,000
	William H. Porter	1,000
	Thomas F. Riley	1,000

Summary.

Number of pupils in the Latin School	548
Number of pupils in the English High School	569
Number of pupils in the Rindge Manual Training School	411
Number of pupils in the Grammar Schools	7,045
Number of pupils in the Primary Schools	5,760
Number of pupils in the Kindergartens	742
Total	15,075
Number of pupils belonging to the public schools December 31, 1903	14,935
Increase of pupils, 1904	140
Increase of pupils, 1903	188
Increase of pupils, 1902	253
Increase of pupils, 1901	62
Increase of pupils, 1900	332
Increase of pupils, 1899	314
Increase of pupils, 1898	476
Increase of pupils, 1897	422
Increase of pupils, 1896	714
Increase of pupils, 1895	250
Increase of pupils, 1894	278
Average annual increase of pupils from 1894 to 1904 (inclusive)	312

Cost of Instruction.

Schools and Officers	Cost of Instruction	Average Number of Pupils	Cost per Pupil
Latin School	$26,275 50	487	$53 95
English High School	27,070 83	556	48 69
Rindge Manual Training School	23,167 16	315	73 55
Training School (Teachers)	14,976 34	755	19 84
Grammar Schools (except Training School)	131,448 91	6,280	20 93
Primary Schools (except Training School)	89,637 88	5,371	16 69
Kindergartens	18,932 77	690	27 43
Teachers of Sewing	1,900 00	....	....
Directors of Music	2,815 00	....	....
Directors of Drawing	2,730 00	....	....
Director of Nature Study	1,000 00	....	....
Directors of Physical Training	1,635 00	....	....
Substitute Teachers	1,784 25	....	....
Superintendent	3,500 00	....	....
Supervisor of Primary Schools	1,230 00	....	....
Agent	2,100 00	....	....
Clerks	1,450 00	....	....
Truant Officers	4,000 00	....	....
Porter	600 00	....	....
Tuition of Cambridge pupils in Belmont Schools	153 25	....	....
Total	$356,406 89	14,454	$24 66

Cost of instruction in Evening High School	$1,577 50
Cost of instruction in Evening Elementary Schools	5,708 00
Cost of instruction in Evening Drawing Schools	*1,343 00
Total	$8,628 50

* The Director of Drawing is principal of these schools. No part of his salary has been included in this amount.

REMARKS ON THE STATISTICS.

The number of pupils registered in the day schools during the year ending June, 1904, is 16,257; the average number belonging, 14,454; the average daily attendance, 13,361. In the per cent of attendance there has been an increase of four-tenths of one per cent. The number belonging to the schools in December, 1903, was 14,935; in December, 1904, 15,075; an increase of 140. The cost of instruction, which includes the salaries of teachers, superintendent, supervisor, agent, clerks and truant officers, is $356,406.89. The total cost of the day schools which, in accordance with the statutory definition of the support of schools, includes the cost of instruction, of text-books and supplies, of incidental expenses, of the care of truants, of the care of schoolhouses and of the transportation of pupils, is $450,310.44.

The average attendance at the evening schools during the school year 1903–1904 was 822, an increase of 99, and the number of teachers, including the principals, was 69. The total cost of these schools, which includes the salaries of teachers, the cost of text-books and supplies, of fuel, light and the salaries of janitors is $11,507.28.

While Cambridge expends a large amount for her schools, there are *two hundred thirty-five* towns and cities in the State which make a larger expenditure in proportion to their wealth. In a list of the thirty-three cities, arranged numerically according to the percentage of their taxable property appropriated to the support of public schools for the year 1903–1904, Cambridge is the *twenty-eighth*. In a list of the towns and cities of the State, arranged numerically according to the sum appropriated for each child in the average membership of the public schools, Cambridge is the *forty-second*.

These statistics relating to the schools of the State are taken from the sixty-eighth annual report of the secretary of the State Board of Education.

TEXT-BOOKS AND SUPPLIES.

At a meeting of the Board in December the committee on supplies submitted a detailed report of the expenditures of that committee for the year. The report is as follows: —

In accordance with Section 30 of the Rules of the School Board, the Committee on Supplies submits its twentieth annual report, it being for the year ending July 1, 1904: —

Stock on hand July 1, 1903	$5,675 79	
Purchases and expenditures to July 1, 1904	24,286 32	
		$29,962 11
Cash sales and damages	$558 14	
Delivered to schools, officers, etc.	22,765 70	
		23,323 84
Stock on hand July 1, 1904		$6,638 27

The purchases and expenditures have been : —

For text-books	$10,756 46	
Desk and reference books	262 96	
Copy books	689 33	
Apparatus and furnishings	2,391 57	
Printing, $196 00; expressage and labor, $361.64	557 64	
Repairing books, $387.69; diplomas, $213.14	600 83	
Tuning pianos	43 75	
Miscellaneous supplies, etc.	8,644 95	
		$23,947 49
Less the value of exchanges		1,212 86
		$22,734 63

The net cost of text-books and supplies is as follows :—

Stock on hand July 1, 1903	$5,675 79	
Bills paid by City Treasurer	22,734 63	
		$28,410 42
Less stock on hand July 1, 1904	$6,638 27	
Cash paid to City Treasurer, sales and damages	558 14	
		7,196 41
We have, net cost of all schools and officers		$21,214 01

or an average cost per pupil of $1.468. The average cost per pupil per annum for twenty years has been $1.275.

The annual cost per pupil for text-books and supplies since the introduction of the free text-book law is as follows : —

Year	Cost per Pupil	Year	Cost per Pupil	Year	Cost per Pupil
1885	$1.880	1892	$1.149	1899	$1.225
1886	1.170	1893	1.109	1900	1 740
1887	1.051	1894	1.243	1901	1.203
1888	1.068	1895	1.152	1902	1.400
1889	0.960	1896	1.436	1903	1 306
1890	1 334	1897	1 094	1904	1.468
1891	1 248	1898	1.268		

The cost of each grade of schools for text-books and supplies is as follows : —

	Net Expenses	Cost per Pupil				
		1904	1903	1902	1901	1900
Latin School	$1,547 27	$2.177	$3.463	$3.990	$3.935	$6.804
English High School	2,309 15	4.153	3.564	3.641	4.236	4.642
Manual Training School.	3,098 32	9.836	16.791	11.564	11.707	13.515
TrainingSchool,Teachers	786 76	1.042	.664	.707	.704	.....
Grammar Schools	5,727 00	1.397	1.070	1.152	1.068	1.747
Mixed Schools	4,744 54	1.342	.907	1.140	.933	1.573
Primary Schools	1,771 78	.441	.379	.528	.431	.396
Kindergartens	291 34	.422	.428	.630	.329	.692
Evening Schools	403 23	.....	.....	.....	.....	.....
Special Teachers	74 63	.....	.....	.....	.....	.....
Officers of Board	52 92	.....	.....	.....	.....	.....
Miscellaneous expenses (not chargeable to any grade)	431 02	.....	.....	.....	.....	.....
	$21,237 96					
Less profit on sales	23 95	.....	.....	.....	.....	.....
	$21,214 01	$1.468	$1.306	$1.400	$1.203	$1.740

The foregoing tables show that the expenditures for text-books and supplies have increased during the year 1903–1904 above those of the previous year by $0.162 per pupil, and above the average for twenty years by $0.193.

The greater part of this increase is in the expenditures for text-books, and is due to the introduction of the new series of geographies, grammars and readers in place of the old. The net cost of the geographies recently introduced into the lowest grades in which they are used respectively, is $2,031.33; and of grammars, $1,375.35. The cost of the McGuffey readers introduced this year is $589.45.

The Latin school shows a decrease in the net expense. The English high school shows an increase in the cost of text-books and apparatus and furnishings. The Rindge manual training school shows a decided decrease from last year, because of the purchase last year of six machine lathes.

The grammar and mixed schools show an increase of $0.381 per pupil due almost entirely to the introduction of new books, and the primary schools show an increase of $0.062 per pupil due to the same cause.

The largest increase in purchases is for text-books, $3,545.37. Other items showing increase are desk and reference books $39.73, copy books $14.50, printing $34.50, diplomas $17.51, and tuning pianos $19.50.

The items showing decrease in cost are apparatus and furnishings $182.55, expressage $68.95, repairs to books $287.02, and miscellaneous supplies $725.63.

The appropriation made by the city council has not warranted the purchase of the two sloyd outfits recommended last year, and necessary if the provisions of the statutes for manual training in all grades are to be complied with. The pianos in the Riverside and Sleeper schools are not suitable for the work and should be replaced. A piano is needed in the Fletcher school hall, and this school will also require considerable expenditure for maps, charts and desk books in the near future.

It is expected that the Houghton school will be ready for occupancy at the opening of the schools in September, 1905; but this will not require a full equipment as it is understood that the furniture of the Washington school will be moved to that school.

The large increase in the number of pupils in the Rindge manual training school will make it necessray to increase the equipment of that school. A request for a special appropriation for this purpose should be asked for from the city council.

The number of pupils in the schools November 1, 1904, was 15,076, an increase of one hundred twenty-four over last year. There is an increase of one hundred thirty in the high schools, ninety-four of these being in the Rindge manual training school, while there is a decrease in the primary schools, owing to the opening of parochial schools. This increase in the more expensive grades will tend to increase the average cost per pupil still more in the future.

Taking the cost per pupil at $1.275, the average cost for the past twenty years, it will require $19,220 for the usual supplies for the schools for the coming year. To this should be added $650 for sloyd outfits for two schools, $550 for three pianos, $500 to complete the introduction of geographies and grammars, making a total of $20,920. An appropriation of $21,000 should be asked for for the regular school supplies besides that which is needed for the equipment of the Rindge manual training school.

CHANGES IN TEXT-BOOKS.

The following is the rule relating to the changes in text-books: — "All propositions for changes in text-books shall be made by the superintendent. Whenever he recommends a change he shall appoint two persons, one of whom shall be a teacher in the service of the city, who shall make written reports on the merits of the books recommended. These reports and a like report by the superintendent shall be kept on file in the office of the superintendent, open to inspection by members of the Board

only. All changes of text-books recommended to the Board shall be referred to the committee on text-books."

Under this rule the following text-books have been adopted by the Board during the year 1904.

For use in the high schools, Harper's Text Edition of the Anabasis, A Term of Ovid, Le Tour de la France, and Government in State and Nation.

For use in the grammar schools, Carpenter's Geographical Readers, and Stepping Stones to Literature.

For use in the primary schools, Wheeler's Primer, and First and Second Readers.

SCHOOL ACCOMMODATIONS.

The following is from the report of the committee on schoolhouses: —

In accordance with Section 30 of the Rules of the School Board, the Committee on Schoolhouses respectfully submits the following report: —

At a meeting of the Board in June it was voted that the Dunster, Sargent and Stearns schoolhouses be abandoned for school purposes.

The Dunster was sold to the society of St. Peter's church and has been fitted up and is occupied by a parochial school. The amount received was $6,500, and it was voted by the city council that this should be expended for improvements and permanent repairs to school buildings. The Sargent and Stearns have not been disposed of.

The Fletcher schoolhouse on Elm street was completed and occupied, in September, the teachers and most of the pupils of the Sargent and Stearns schools being transferred to it. Thirteen rooms are occupied, thereby relieving the crowded condition of the Roberts, Kelley and Wellington schools.

The arrangement of classes in all of these schools has been very difficult as the buildings are so near each other that many children are compelled to pass one or another of them on their way to their own schools, causing much dissatisfaction to parents and pupils.

The total cost of the Fletcher school is: —

For Land	$11,259 75
The building	57,129 12
Architect's fees	3,152 36
Heating and ventilation	7,577 00
Plumbing	4,327 50
Furniture	4,585 89
Fence, grading, sidewalks, etc.	1,821 05
Miscellaneous	1,433 13
	$91,285 80

The "Mill Pond Lot" on Bancroft and Gilmore streets which had been selected for a site for a schoolhouse proved to be unsuitable for this purpose and land was bought for the Houghton schoolhouse at the corner of Putnam avenue and Magee street. The foundations are now in and it is expected that the building will be ready to be occupied in September next. The building is to be a reproduction of the Peabody schoolhouse except in the construction of its roof. The appropriation for land and building is $100,000, the land costing, in round numbers, $9,000. The contract price for the building is $67,067, not including architect's fees, heating, plumbing or grading.

The rapid increase in the number of pupils in the Rindge manual training school made it necessary to build an addition to the forge shop which with the necessary equipment cost $7,278.79. Should this increase continue, as it undoubtedly will, the school will require the whole of the Washington schoolhouse in the near future. It now occupies five rooms in that building besides every nook and corner of the original building.

In accordance with suggestions of this committee to the superintendent of public buildings many extensive repairs and improvements have been made on the several buildings, and it is to be regretted that the thorough renovation of the basement of the Rindge manual training school was not included. It is hoped, however, that this will be made during the next summer vacation.

The following table taken from the report of the superintendent of public buildings shows the total expense for the care and repairs of the school buildings: —

For Janitor service	$36,739 11
Janitors' supplies	1,578 57
Extra help	2,003 59
Fuel	20,914 69
Gas and electric lighting	2,454 75
Furniture	1,394 32
Repairs to buildings, etc.	23,245 68
	$88,330 71

JANITORS.

Section 31 of the city charter provides that "The mayor shall appoint the janitors of schoolhouses, subject to confirmation by the school committee, and may remove them at pleasure for cause assigned; and such janitors shall perform their duties under the direction of the school committee."

Under the direction of the committee on schoolhouses, the agent supervises and directs the work of the janitors, and reports to the commit-

tee such matters as seem to need consideration. The principals of the schools report each month whether or not the work is done in a satisfactory manner.

The following is from the report of the committee on schoolhouses : —

The improvement in the work and spirit of the janitor service noted last year has continued under the able management of Mr. John J. Roach, the head janitor, who has supervised the improvements in plumbing, heating and ventilation.

Messrs. Roach, Hughes, McDonald and the truant officers have been appointed constables.

In Memoriam

JAMES FRANK WENTWORTH
April 12, 1904

Member of School Committee
1903 — 1904

SARAH S. WELLS
January 16, 1905

Assistant Gore Kindergarten
1894 — 1897

Principal Corlett Kindergarten
1897 — 1905

PLAN OF THE SCHOOL REPORT.

For many years the subject matter and arrangement of the statistical part of the school reports have remained essentially unchanged. This has been done because statistics become increasingly valuable when continued on the same plan from year to year. For several years, with the exception of last year, the reports have also contained certain definite information relating to the organization and conduct of the schools, such as is frequently sought by parents and persons interested in school affairs. This has enabled the superintendent to answer many letters of inquiry by simply mailing a school report.

Last year the report was of an historical character and for the purpose of saving space the specific information relating to the organization and conduct of the schools was omitted. This year the usual plan is followed.

LATIN SCHOOL.

The following table shows the membership of the Latin school and the cost of instruction from year to year for five years : —

December	Average Number of Pupils	Number of Teachers in December	Cost of Instruction	Cost per Pupil	Number of Graduates
1900.....	404	22	$21,819 00	$54 01	39
1901.....	468	22	23,710 34	50 66	56
1902.....	465	24	25,236 00	54 27	62
1903.....	474	24	25,472 00	53 74	49
1904.....	487	24	26,275 50	53 95	50

The cost of the Latin school to the city is less than the above sums by the amount received for the tuition of non-resident pupils. The amount received this year was $1,144.

The course of study is arranged for five years, or for four years, and is almost wholly decided by the requirements for admission to Harvard University. Ten per cent of all the graduates have completed the work in four years. The following is the rule relating to the admission of pupils to the high schools : —

"Pupils who have received the diploma of a grammar school may, on recommendation of the master, be admitted to either high school without an examination. For other persons who desire admission, an examination shall be held at the beginning of the autumn term under the direc-

tion of the superintendent, but pupils who are qualified to join existing classes may be admitted at any time on application to the principal. No pupil from any grade in a grammar school shall be examined who does not present a satisfactory certificate of having pursued the required studies during the summer vacation."

From three-fourths to four-fifths of the graduates are usually recommended for admission without an examination. About one-half of the remaining part study during the summer vacation, as required by the rule, and take an examination in September. Pupils who pass a fairly good examination are permitted to attend either high school until the Christmas vacation, at which time their connection with the school as regular pupils ends unless their work has been satisfactory.

Diplomas of graduation signed by the mayor and the head master of the school are awarded to pupils of the high schools who have successfully completed the course of study or its full equivalent, and have sustained a good character.

For non-resident pupils the tuition is $80 a year, payable in advance, — one-half at the beginning, and the other half at the middle of the school year. The sessions of the school begin at 8.30 A. M., and end at 1.30 P. M.

ENGLISH HIGH SCHOOL.

The following table shows the membership of the English high school and the cost of instruction for five years : —

Year	Average Number of Pupils	Number of Teachers in December	Cost of Instruction	Cost per Pupil	Number of Graduates
1900	514	24	$25,250 50	$49 13	68
1901	517	24	26,265 58	50 80	60
1902	498	24	26,747 51	53 71	86
1903	493	24	27,109 83	54 99	73
1904	556	24	27,070 83	48 69	76

This school has for its object the preparation of its pupils for entrance upon active life. It has three distinct courses of study. The plan of the courses is that all pupils in the school shall pursue substantially the same subjects for their first year, but thereafter shall have increasingly divergent studies, open to choice within reasonable limitations and determined largely by aptitude and expectation of subsequent career.

The general course provides a broad, liberal training for boys and girls who expect to end their academic education with the high school,

and includes all subjects which are required for preparation to enter the State normal schools. All who propose to become teachers in grammar or primary schools should take this course.

The commercial course is designed to combine with studies which cultivate the mind in a broad way certain others which give special power in processes needed in business life. Bookkeeping is provided in the second year, shorthand and typewriting in the third and fourth, and economics in the fourth. This course should be taken by those boys and girls who expect to enter a commercial career.

The domestic science course is intended for those girls who, while gaining culture of mind, wish also to train the hand in arts that are needed constantly in the home. In the second year they work in wood with tools suitable to their strength and take up dressmaking. In the third year they learn cooking by theory and practice. In the fourth year they continue their cooking, and deal with the preserving of fruits, with sanitation, and with other problems of household economy.

The requirements for admission to this school and the rules relating to the granting of diplomas are the same as for the Latin school.

For non-resident pupils the tuition is $80 a year, payable in advance, — one-half at the beginning, and the other half at the middle of the school year. The sessions of the school begin at 8.30 A. M., and end at 1.30 P. M.

RINDGE MANUAL TRAINING SCHOOL.

The following table shows the membership of the manual training school and the cost of instruction from year to year for the past five years : —

Year	Average Number of Pupils.	Number of Teachers in December	Cost of Instruction	Cost per Pupil	Number of Graduates
1900	192	14	$17,825 73	$92 84	16
1901	191	14	17,988 33	94 18	21
1902	242	15	19,108 67	78 96	23
1903	262	16	21,125 50	80 63	38
1904	315	19	23,167 16	73 55	30

The cost of the manual training school to the city is less than the above sums by the amounts received from Harvard University for the instruction of a class of students during the summer vacation, and for the tuition of non-resident pupils. The amount received this year from both sources was $4,130.

The course of instruction covers four years. An effort is made to give proper emphasis to the academic features of the course, and to make that work interesting and effective by bringing it into intimate relation with instruction in the mechanic arts.

The manual dexterity and the thorough knowledge of tools, machinery, and mechanical processes acquired in the shops, at an age when time can be most easily spared for such training, is of inestimable value in any scientific pursuit.

The sessions are five and one-half hours a day, instead of five as in the other high schools. About one-third of the time is given to the work of manual training, and the remainder to the subjects usually taught in high schools, with the exception of Latin and Greek.

The requirements for admission to this school and the rule relating to the granting of diplomas are the same as for the Latin school.

For non-resident pupils, the tuition is $150 a year, payable in advance, — one-half at the beginning, and the other half at the middle of the school year. The sessions of the school begin at 8.30 A. M., and end at 2 P. M.

The following is from the report of the committee on high schools: —

In accordance with Section 30 of the Rules of the School Board, the Committee on High Schools respectfully submits the following report: —

The principal matter of interest during the last year was the changes in the courses of study in the various schools. The change in the Latin school was of a minor character and was only expected to result in a more even division of the work. That for the manual training school was more considerable and was made with a view to the increased efficiency of the school. At the English high school the changes were more extensive and sweeping, but it is too soon yet to form an opinion of the effect in either of the schools.

The committee would call the attention of the Board to the decreasing number of boys in the entering classes of the English high school. There is an undoubted tendency among both parents and pupils towards including manual training in the course of study in the high school for such scholars as do not intend to take the classical course. If this is the result of a well-defined conviction and is along the lines of general improvement in educational matters, it is undoubtedly the duty of the committee to accommodate itself to the desires and views of the citizens. The logical result of such a course would seem to be an ultimate disappearance of boys from the English high school. By the changes of study, the committee provided a commercial course as well as a general course which should be useful to boys who do not desire either a classical or a manual training course. Whether such boys will come to the

high school in increasing numbers in years to come as a result is at present problematical. All that can be said is that the present year showed no indication of such being the case. It should be borne in mind, however, that probably the pupils who entered this year in a very large majority of cases had already made up their minds as to their further education before the changes in the course of study were decided upon by the committee.

The teaching force in the high schools remains much the same, as might naturally be expected. The high school committee would call the attention of the Board, however, to the fact that this year as in previous years, some of our more experienced teachers have left us to accept similar positions elsewhere at higher salaries. In spite of the increase of salary which is granted to many of the teachers in the high schools from year to year, the committee should recognize the fact that Cambridge pays lower salaries for male teachers in its high schools than teachers receive elsewhere. This, coupled with the fact that Cambridge is looked upon as a place to find good teachers with some experience and that our teaching force may be said to be continually under inspection by superintendents and principals from other places, means that we shall constantly lose from our more experienced and promising teachers, and shall be obliged to recruit our forces from younger and more inexperienced men. The committee does not mean to suggest any remedy or to infer that any remedy is possible for this state of affairs; neither is the committee prepared to say that such a state of affairs is altogether undesirable.

The committee would call the attention of the Board to the fact that the increase of pupils in the Rindge manual training school required the employment of three additional teachers in this school. Experience has shown that in this particular school, the employment of male teachers is very desirable, and all three of the additional teachers selected were men. The result of this policy, however, is to increase the expense of the school, and the Board should understand that the manual training school is now by far the most expensive school in the city. The expense per pupil in this school is something like fifty per cent larger than in either of the other high schools.

The great increase in the number of pupils at the manual training school made necessary an enlargement of the forge shop which involved some changes in the boiler room and a general rearrangement of the forges and blowers. The delay in completing this work caused a great deal of confusion at the beginning of the school year, but the results will be very satisfactory. The number of pupils this year is even greater than was expected and the probable growth of the school during the next few years demands a large increase in the accommodations. As the Wash-

ington school building, one-third of which is now used by the Rindge manual training school, will be entirely given up for grammar school purposes as soon as the Houghton schoolhouse is ready for use, this committee has planned a readjustment of the classes, which will require some additional apparatus in each of the shops. Attention should be called to the dangerous and unhealthy condition of the basement of the old building where the lockers and toilet rooms are placed.

This committee wishes to suggest the desirability of utilizing the plant at this school in the evening. The demand for an evening manual training school is strong, and with the successful opening of such a school in Springfield, Massachusetts, under Mr. Warner, formerly one of our masters, and the use made by the young men from Cambridge of the evening trade school in Boston where a fee is charged, the time seems to have come for the opening of a manual training department as a part of our free evening school system.

The high school committee has continued the course in physical training for girls on substantially the same lines as laid down last year. The committee believes this course to be very beneficial in that it regulates to a large degree the athletic exercises of the girls. The condition of affairs in the schools with regard to athletic exercises is much more satisfactory than it was before the employment of a teacher. The gymnasium, however, is still without apparatus, and the committee feels that the value of the courses in physical training now given could be greatly increased at a small expense.

Without desiring to trespass upon the duties of the committee on schoolhouses, the high school committee would again call attention to the condition of the English high school. Some improvements were made during the summer vacation, but many of the rooms are still in poor condition.

MANUAL TRAINING IN OTHER SCHOOLS.

The statutes require that every town and city of twenty thousand or more inhabitants shall maintain, as part of both its elementary and its high school system, the teaching of manual training. The Rindge manual training school gives the required instruction to boys of the high school grade, and provision is made in the English high school for girls of this grade, sloyd being taught in the second year, and cooking in the third. Sewing in the grammar schools may be considered as meeting the requirement for girls in the grammar grades.

The requirement that manual training shall be taught in elementary schools as well as in high schools has not been fully complied with. Provision has been made for the teaching of this subject in only three of

the grammar schools. The superintendent hopes that in the near future provision will be made for the teaching of manual training in all the grammar schools, as required by statute. The work of manual training in all the schools is under the direction of the head master of the Rindge manual training school.

WELLINGTON TRAINING SCHOOL.

This school was opened in September, 1884, and differs from the other schools in this respect, — all the grades, except the eighth and ninth, are taught by young teachers. Their work, however, is done under the immediate supervision of a master and three assistants, who are held responsible for the instruction and management of the school. For several years the seventh grade has been taught by a graduate of the training class.

The object of conducting a school on this plan is to give Cambridge young women who desire to teach, and who have made special preparation for the work, an opportunity to gain experience under conditions favorable to their own success, and without prejudice to the interest of their pupils.

Graduates of the English high school or of the Latin school, who have also graduated from one of our State normal schools, are preferred candidates for the position of teacher in this school. Other persons of equal preparation may be appointed.

The required term of service is one year. Teachers are appointed on probation, and may be excused or dismissed at any time by the superintendent, with the approval of the committee on the training school

No teacher is considered a graduate of the school until by vote of the training school committee she is admitted to the graduate class, which is known as class B.

The money compensation for the first three months, and until satisfactory service is rendered, is at the rate of two hundred dollars a year. For the remaining part of the year it is at the rate of two hundred fifty dollars.

Graduates temporarily employed as teachers in this school are paid at the rate of three hundred dollars a year. Graduates selected to act as substitutes in any school are paid at the rate of four hundred fifty dollars.

That the direct influence of the school may be continued, it is the duty of the master, or of one of the supervising teachers, occasionally to visit the schools of the graduates who are teaching in Cambridge. The school contains all the grades of the grammar and primary schools and a kindergarten.

By the rules of the school board the superintendent is authorized to employ as many substitutes and temporary teachers as may be necessary to take the places of absent teachers. These teachers are usually assigned to the training school, when not otherwise employed, that there may be at this school a sufficieut number of teachers to make it practicable for the members of the training class to visit other schools.

The following is from the report of the committee on the training school: —

The Cambridge training school for teachers has completed another year of successful work. Its crowded condition has been relieved by the opening of the Fletcher school and the building itself has been repaired and strengthened and the walls and ceilings made more attractive.

No change has been made in the corps of regular teachers and the work of the school is similar in style and character to that done in former years.

Between September, 1903, and September, 1904, twenty-three pupil teachers were admitted to the school. Of these, eleven have completed the required year of service, eight are still connected with the school, and four have severed their connection to engage in other pursuits or to teach in other cities.

The school contains all of the primary and grammar grades and a kindergarten, the number of pupils being about eight hundred.

More than fifty per cent of the present teaching force in our primary and grammar schools, not including the Wellington, are graduates of this school, and it has become such an important factor in the educational machinery of the public school system in the city, that it would be difficult to carry on the work of the schools without its assistance.

GRAMMAR SCHOOLS.

The number of pupils in these grades on the first of December was seven thousand forty-five and the number of teachers, including masters and special teachers, was one hundred eighty-seven.

The cost of instruction for each pupil for the year has been $20.93. This does not include the cost of supervision or the cost of the Wellington school.

For non-resident pupils the tuition is $30 a year, payable in advance,— one-half at the beginning, and the other half at the middle of the school year.

The course of study is for six years, but the schools are so classified as to give the pupils an opportunity to complete the course in four years or in five years. The average age of those who entered last September

was nine years eight months. The number of graduates in June was seven hundred eight, their average age being fourteen years ten months. Of these, 5 per cent completed the course in four years, 28 per cent in five years, 52 per cent in six years, and 15 per cent in seven years or more.

Pupils are promoted by classes from the primary schools at the beginning of the autumn term; but individual pupils may be promoted at other times, if it is deemed expedient by the supervisor of primary schools and the superintendent.

Promotions from grade to grade in the grammar schools, and from the grammar to the high schools, are made by the teachers under the direction of the masters and the superintendent. Pupils qualified to join existing classes may be admitted at any time on application to the master of the school. No regular pre-announced examinations are held in these schools, but the results of such written exercises and reviews as the teachers and masters may require from time to time may be used as a part of the basis of promotion.

The thoroughness with which the work is done in the grammar schools is shown in part by the ability of the pupils to do the work in the high schools. The pupils are admitted to the high schools on trial; and, by the rule of the high school committee, any pupil who fails to maintain a suitable rank is reported to that committee, and no pupil thus reported can continue in either high school, except by special vote. For the past four years, however, provision has been made by which these pupils have been allowed to remain in the English high school, and receive such instruction as would best fit them to enter again upon the regular work of the school at its reorganization in September.

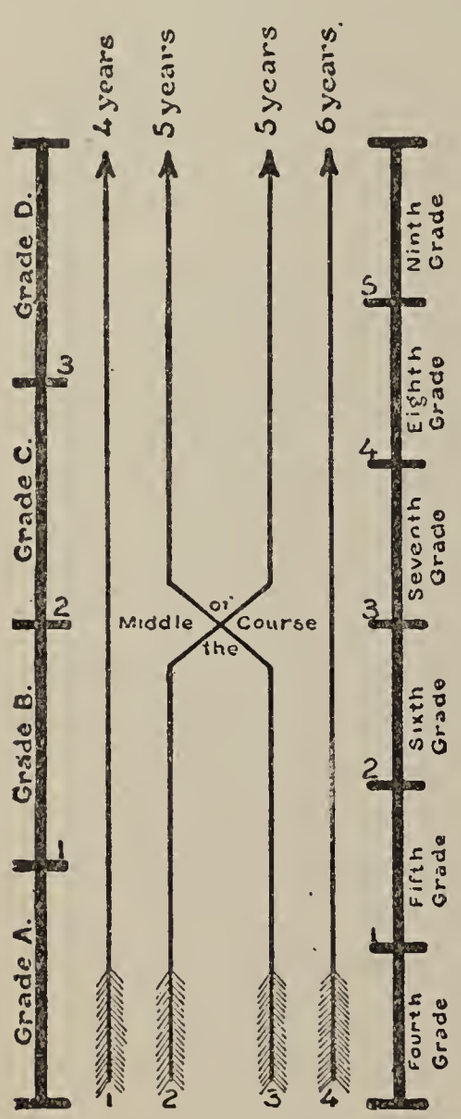
In the grammar schools, special teachers are appointed to help such pupils as seem able to do the work in less than six years, and to aid those who without personal instruction would require more than six years. This action of the committee removes the most serious objection to the graded system of schools.

The course of study is divided in two ways: (1) into six sections; (2) into four sections; each section covering a year's work. Pupils taking the course in six years are classified in six grades, called the fourth, fifth, sixth, seventh, eighth, and ninth grades. Those taking it in four years are classified in four grades, called grades A, B, C, and D. When pupils are promoted to the grammar schools they begin the first year's work together. After two or three months they are separated into two divisions.

One division advances more rapidly than the other, and during the year completes one-fourth of the whole course of study. The other division completes one-sixth of the course.

During the second year the pupils in grade B are in the same room

with the sixth grade. At the beginning of the year they are five months (one-half the school year) behind those in the sixth grade. After two or three months grade B is able to recite with the sixth grade, and at the end of the year both divisions have completed one-half the course of study — the one in two years, and the other in three years. The plan for the last half of the course is the same as for the first half, the grades being known as the seventh, eighth, and ninth in the one case, and as C and D in the other.



There are also two ways of completing the course in five years: (1) any pupil who has completed one-half the course in two years may at the end of that time be transferred to the seventh grade, and finish the course in three years; (2) any pupil who has completed one-half the course in three years may at the end of that time be transferred to grade C, and finish the course in two years. In both cases these changes can be made without omitting or repeating any part of the course.

It is now thirteen years since the schools were first classified on this plan. During this time seven thousand two hundred eighty-two pupils have graduated from the grammar schools. Of this number, 7 per cent completed the course in four years, 29 per cent in five years, 49 per cent in six years, and 15 per cent in seven years or more.

Of the number who entered the Latin school during the past ten years, 15.7 per cent did the work in the grammar schools in four years, 45.0 per cent in five years, and 36.3 per cent in six years. Of those who entered the English high school and took the general course, 10.2 per cent did the work in the grammar schools in four years, 40.5 per cent in five years, and 49.3 per cent in six years; of those who took the commercial course in the English high school, 9.1 per cent did the work in the grammar schools in four years, 35.9 per cent in five years, and 55.0 per cent in six years. Of those who entered the Rindge manual training school, 5.5 per cent did the work in the grammar schools in four years, 36.3 per cent in five years, and 58.2 per cent in six years.

Arrow No. 1 indicates the four years' course; grades A, B, C, D. Arrow No. 2 indicates one of the five years' courses; grades A, B, 7, 8, 9. Arrow No. 3 indicates the other five years course; grades 4, 5, 6, C, D. Arrow No. 4 indicates the six years' course; grades 4, 5, 6, 7, 8, 9.

During the past ten years, more than 50 per cent of the pupils entering the high schools did the work in the grammar schools in less than six years, 40.2 per cent doing it in five years, and 11.0 per cent in four years. It does not follow, however, that because so many did the work in less than the full time, the plan is a good one. Its value is shown, rather, by the thoroughness with which the work has been done, not in one year only, but in a series of years. The results of the first year's work in the high schools would seem to be a test of this thoroughness. The records in these schools show that for ten years the average per cent of the pupils who were four years in the grammar schools was higher than for those who were five years in the grammar schools, and that the per cent of those who were five years in the grammar schools was higher than for those who were six years in the grammar schools.

The average per cents of the first year's work in the different high schools for ten years are as follows : —

In the Latin school, the average per cent of the pupils who completed their grammar school work in four years is 80.3; of those who completed it in five years, 75.8 ; of those who completed it in six years, 72.1.

In the general course of the English high school, the average per cent of the pupils who completed the grammar school work in four years is 78.3 ; of those who completed it in five years, 75.9 ; of those who completed it in six years, 73.3.

In the commercial course of the English high school, the average per cent of the pupils who completed the grammar school course in four years is 73.5; of those who completed it in five years, 72.6; of those who completed it in six years, 70.3.

In the Rindge manual training school, the average per cent of the pupils who completed the grammar school work in four years is 73.4; of those who completed it in five years, 69.4 ; of those who completed it in six years, 67.9.

The following tables will be of interest as showing the results of the first year's work in the high schools of ten classes : —

IN THE LATIN SCHOOL.

Record of Ten Different Classes	Four Years in Grammar Schools	Five Years in Grammar Schools	Six Years in Grammar Schools
First Year in High Schools	Average per cents in High Schools	Average per cents in High Schools	Average per cents in High Schools
Class of 1895.....	78.7	78.9	76.4
Class of 1896.....	80.4	77.0	71.6
Class of 1897.....	79.3	72.5	66.9
Class of 1898.....	77.1	72.3	67.8
Class of 1899.....	80.0	73.0	61.8
Class of 1900.....	81.1	75.9	75.4
Class of 1901.....	79.6	75.2	70.1
Class of 1902.....	81.0	77.5	74.7
Class of 1903.....	83.0	79.1	74.7
Class of 1904.....	81.0	76.6	75 9

IN THE ENGLISH HIGH, GENERAL COURSE.

Class of 1895.....	77.3	76.2	73.4
Class of 1896.....	85.9	75.1	76.4
Class of 1897.....	79.7	78.7	72.2
Class of 1898.....	77.6	75.8	77.0
Class of 1899.....	75.6	75.1	69.1
Class of 1900.....	79.2	73.4	71.1
Class of 1901.....	72.8	75.2	73.2
Class of 1902.....	82.2	75.3	74.3
Class of 1903.....	86.6	77.0	72.7
Class of 1904.....	75.3	76.6	75.4

IN THE ENGLISH HIGH, COMMERCIAL COURSE.

Class of 1895.....	73.7	73.5	69.8
Class of 1896.....	74.8	70.9	68.4
Class of 1897.....	76.3	69.0	69.3
Class of 1898.....	75.7	73.8	69.5
Class of 1899.....	69.5	68.5	68.9
Class of 1900.....	69.2	73.6	72.5
Class of 1901.....	76.0	73.6	70.5
Class of 1902.....	74.9	75.5	73.3
Class of 1903.....	74.3	76.6	70.9
Class of 1904.....	72.7	73.1	69.6

IN THE MANUAL TRAINING SCHOOL.

Class of 1895.....	72.6	65.4	65.9
Class of 1896.....	79.3	63 5	65.2
Class of 1897.....	78.6	67.2	61.7
Class of 1898.....	81.7	69.5	68.9
Class of 1899.....	....	67.5	67.8
Class of 1900.....	72.6	69.6	68.0
Class of 1901.....	80.0	67.8	68.4
Class of 1902.....	80.4	71.9	69.2
Class of 1903.....	70.4	73.5	70.3
Class of 1904.....	76.2	71.6	68.7

The results already given are based on the first year's work in the high schools. For four years results have been obtained based on the full course in the high schools. During these four years, two hundred seventeen pupils have been graduated from the Latin school. Of these two hundred seventeen, one hundred sixty were graduates of the Cambridge grammar schools. Of these one hundred sixty, twenty-six did the work in the grammar schools in four years, and their average per cent for the Latin school course was 83.9; ninety-two did the work in the grammar schools in five years, and their average per cent for the Latin school course was 76.9; forty did the work in the grammar schools in six years, and their average per cent for the Latin school course was 75.7; two did the work in the grammar schools in seven years, and their average per cent for the Latin school course was 67.8.

During these four years, two hundred ninety-five pupils have been graduated from the English high school. Of these two hundred ninety-five, two hundred forty-four were graduates of the Cambridge grammar schools. Of these two hundred forty-four, twenty-four did the work in the grammar schools in four years, and their average per cent for the high school course was 76.9; ninety did the work in the grammar schools in five years, and their average per cent for the high school course was 76.3; one hundred sixteen did the work in the grammar schools in six years, and their average per cent for the high school course was 75.4; fourteen did the work in the grammar schools in seven or more years and their average per cent for the high school course was 72.7.

These results do not indicate as thorough preparation for high school work as is desirable, but they do show that there are some pupils who can do the same amount of work as others in less time, and do it as well and even better. If it is said that the pupils who spent only four or five years in the grammar schools should have remained longer, it would be equally true that the time should have been lengthened for those who had been in these schools six years.

PRIMARY SCHOOLS.

The number of pupils in these grades on the first of December was five thousand seven hundred sixty, and the number of teachers was one hundred forty-two.

The cost of instruction for each pupil for the year has been $16.69. This does not include the cost of supervision or the cost of the Wellington school.

For non-resident pupils the tuition is $20 a year, payable in advance, — one-half at the beginning, and the other half at the middle of the school year.

The course of study is for three years. Children five years old are admitted to the first grade at the beginning of the school year and during the first week in March. Pupils qualified to join existing classes may be admitted at any time on application to the principal. At the present time, 38 per cent of the pupils are in the first grade, 32 per cent in the second, and 30 per cent in the third.

One thousand four hundred forty-four pupils graduated last June at an average age of nine years six months. Of these, 6 per cent completed the course of study in less than three years; 54 per cent in three years; 6 per cent in three years and a half; and 34 per cent in four years or more.

Promotions from grade to grade in the primary schools, and from the primary to the grammar schools, are made by the primary teachers, under the direction of the supervisor of primary schools and the superintendent. Promotions by classes are made annually at the beginning of the autumn term; but individual promotions are made at other times if it is deemed expedient by the supervisor of primary schools and the superintendent.

Pupils are promoted to the grammar schools on trial, and those who show by their work that they are unprepared are returned to the primary schools on the approval of the supervisor of primary schools and the superintendent.

Once a month the teachers of each grade meet the directors of special studies and the supervisor of primary schools. These meetings are held in the English high school building on Wednesday afternoons, half an hour after the close of the schools. The work for the coming month is planned; criticisms and suggestions in regard to methods are made; and questions from the teachers are answered and discussed.

Occasionally specimens of written work from all the pupils are brought for examination. In this way the amount of work done in the schools is made somewhat uniform; new teachers are kept informed as to the requirements, and pupils lose less time when a change of teacher or school becomes necessary.

The supervisor of primary schools writes as follows: —

During the year an effort has been made at the grade meetings not only to lay out the work for the next month, but to get an expression of opinion from the teachers on questions relating to the best interests of the pupils. With this end in view, the teachers have been invited to prepare brief and unsigned statements of their views on various subjects presented to them from time to time.

The best books on reading were first considered, and a decision arrived at as to which were the most useful for teaching and special drill,

and which were better for general reading. The order in which the books might be presented to the class was also considered. From the answers returned a list was obtained which met the general approval of the teachers.

Phonics and materials for desk work were next considered, also the question from what source the most practical course of spelling could be obtained.

The responses to the last query showed that the teachers were unanimously of the opinion that doing a little well was the sure way to success in teaching spelling to young pupils.

The old course of study was next considered. The answers, given with great freedom and good nature, not only indicated where the course of study pressed most heavily, but revealed the interpretation put upon some of the directions. The teachers are to consider the new course of study at the January meetings.

The need most felt at present is a number of the best and latest text-books on phonics, language and number for the teacher's desk. Most of the teachers object to any of the mechanical modes of teaching reading, but would be glad to avail themselves of the suggestions contained in several of the recent text-books. The latest ideas on methods in language and number would also be valuable.

In some of the districts need is felt of relieving the primary schools of the children over ten years of age. Many of these children are intelligent but began their school life late. They should be taught in a different manner from the young children and they are in danger of losing their self respect by being classified with others so much younger than themselves.

The librarian of the public library has asked the coöperation of the primary teachers in making the children's room helpful to the younger children. He and his assistant met the teachers and after an interesting talk on this part of the library work, requested that the teachers suggest in writing such books as would be desirable to add to the present list.

Great praise is due the teachers for their hearty response to suggestions made in the interest of their pupils; for the generous ways in which they try to make the children's school life attractive, and for the sympathetic manner in which they seek the good will and coöperation of the parents.

KINDERGARTENS.

The number of pupils in the fifteen kindergartens on the first of December was seven hundred forty-two, and the number of teachers was twenty-nine.

The cost of instruction for each pupil for the year has been $27.43. This does not include the cost of supervision.

To be eligible to the position of teacher in a kindergarten, a person must have had a course in a high school, a course in a kindergarten normal school, a year's experience in teaching either in a kindergarten or a primary school, and must be able to play the piano.

Students in kindergarten normal classes are given opportunities to observe during their two years' course, and are allowed one month's experience in the first primary grade, but it is not deemed expedient for them to observe after graduation.

Teachers in kindergartens are to use their afternoons in visiting the homes of their pupils, with a view of maintaining friendly relations with the parents and of securing regularity of attendance, except when the time is needed for preparation for their work, and they are to make reports on blanks prepared for this purpose. The average number of visits made by both principal and assistant to homes of children is about one hundred fifty.

The following is from the report of the committee on kindergartens: —

From the time of the chairmanship of the Hon. Robert O. Fuller, it has been the aim of the kindergarten committee to add to the number of kindergartens yearly until the needs of the children of the kindergarten age were met. The committee has not yet attained its ideal, but progress has been made.

When the schools opened in September, the Dunster schoolhouse had been sold and such children as did not go to the parochial kindergarten were sent to the Peabody kindergarten. A new kindergarten was opened in the Holmes school and the principal of the Dunster kindergarten was transferred to it.

There is no district in Cambridge that needs a kindergarten so much as the Parker, but as yet it has not been found practicable to vacate a room in the Parker schoolhouse to accommodate a kindergarten.

The monthly mothers' meetings held by the kindergartners are a valuable part of the kindergarten work. These meetings have attracted attention and received honorable mention outside of Cambridge.

The kindergartners are faithful in calling at the homes of the children, and in this way and by the mothers' meetings a most effective coöperation is secured and a lasting work for good is accomplished.

A numerously signed petition from mothers in the vicinity of the Shepard school urges that a kindergarten be opened in connection with that school. As there is a suitable room available in that schoolhouse, the committee thinks it advisable that there be no delay in granting this request.

The following from the address delivered by Madame Ottelia Bondy before the kindergarten department at St. Louis in connection with the Louisiana Purchase Exposition is of special interest: —

"May I be permitted, first of all, to express my deepfelt satisfaction at being privileged to address this distinguished assembly as a delegate from the Association for Kindergartens and Infant Asylums in Austria, my native country?

Austria has the proud distinction of having been the first country in Europe whose government, as early as 1872, regulated the didactic position of the kindergarten as an item of its general plan of education, without, however, making it compulsory as an integral part of the public schools. * * * * *

My associates were much encouraged by what I had to report to them about the admirable Froebel work done in this country when I came home from the World's Fair in Chicago, 1893. Now again, studying your marvelous exhibit in the Palace of Education, and having had the privilege of visiting kindergartens in this town and elsewhere, I shall be able to tell them that you are not flagging in your work, but rather progressing in your labor for the good of the earliest age, about which our great teacher, Froebel, says: 'It is the most important one for education, because the beginning determines the manner of progress and the end.'

Your beginnings with the little ones are the best example I can take home with me to my country. You teach them to love God and all his creations; you teach them to go back to their homes with loving hearts and to honor the glorious star-spangled banner of their native land, which is just now giving an unparelleled example of patriotism and of boundless development to the whole world.

These experiences I shall take back with me as the best gift which one nation can offer to another over the vast expanse of land and sea."

SPECIAL STUDIES.

The committee on special studies has the supervision of the instruction in nature study, drawing, music, physical training and sewing.

NATURE STUDY.

The work in nature study includes the study of plant and animal life with some study of minerals and of weather phenomena.

The study of plants was first undertaken, and still makes up the larger part of the work. The study of animal life consists mainly of lessons on insects and birds. The mineral work is confined to lessons on common metals and on building stones.

Plants are studied in grades one to four, inclusive; insects in grades one, two, and four; birds in grade four; weather phenomena in grades one to three, inclusive; and minerals in grade four only.

Specimens chosen for study are those in which the pupils have a present interest, and all work is based on present experience. It is kept well within the capabilities of children, yet novel enough to require their best effort. Wherever it can be made to blend with other lines of school work, this is done.

The results sought are increasing knowledge of facts gathered by observation; familiarity with environment; and a growing sympathy with nature.

The following is from the report of the director of nature study to the supervising committee: —

When in 1894 nature study was made a part of the course in Cambridge, we were in touch with the best work that was being done in that line. Since that time, new ideas have come up to be tested and retained or dropped as they proved valuable or otherwise. Cambridge has kept in touch with all good work without following to extremes.

Slight changes in the course of study have been made from time to time as the work grew; they have been mainly changes to adjust the course to the time allowance, not changes in fundamental things, and they have been made gradually.

The best nature work now calls for lessons out-of-doors. During the year classes have been taken out from time to time from sixteen buildings. These outdoor lessons are not required but are voluntary on the part of the teachers. Twenty minutes of study out-of-doors is of more value than twice the time spent with specimens indoors.

Nature study also calls for actual work with seeds planted and tended by students. During the year pupils in every school except one, to the number of several thousands, were planting seeds at home. The plantings were in boxes on roofs and window sills, in flower pots, and in small back yards as well as in places where conditions were more favorable. The results have been varied but always interesting. In this work we owe much to a Boston firm who put up and sold excellent seeds in small quantities at a low price.

Nature study now calls for practical results in the way of improved school grounds. We have gardens in twelve of the school yards and in seven the decoration of the grounds is under way.

Nature work should bring about greater interest in the outdoor life about us. In the fourth grade, where the study of birds is taken up, the children are taught to provide food for the winter birds in order to bring them about the homes; they are taught the story of the brown-tail moth that they may do what children can to lessen its destructiveness.

These are among the newer features of the work. We would gladly make more use of the many parks in the city if some provision for doing so could be made. There is much that could be studied with profit especially by pupils in the more crowded parts of the city. All that we can do for ourselves we wish to do, but we need some help, for instance, for the first working of the soil and the securing of the loam for the school gardens.

In obtaining specimens for indoor work, the teachers are very unequally circumstanced. The specimens are obtained, but often with much expenditure of time and effort. Text-books for the pupils are not needed, but books like Huntington's "Trees in Winter" and Chapman's "Teachers' Manual of Bird Life" with the plates, are desirable, especially in the fourth grade.

DRAWING.

The course of instruction in drawing in the primary and grammar grades includes form, color and designing.

The study of form (pictorial representation) is carried through all the grades upon a plan involving type solids and natural forms of leaves, flowers and fruit. Construction drawing of objects and of simple original ornaments is gradually developed by progressive exercises. Geometrical drawing is introduced in the sixth grade and continued through the advanced grades. Drawing from nature receives special attention during the spring and autumn months.

Color is studied in all the grades, colored tablets being used in the primary grades and water colors in the grammar grades. Harmony and mixing of colors are treated as a science in special exercises; while color skill is artistically expressed in original designs and in nature study.

In design, particular attention is given to subjects involving fundamental principles of symmetry, balance, etc., and to methods of working out simple, specific problems in construction and in decoration.

In the English high school, drawing is a required study the first year, and is carried forward upon a plan of which the following is an outline: —

Drawing from objects and from casts, drawing from nature of plant form, drawing to scale, designing (constructive and decorative), and color harmony.

Drawing, designing, or water-color painting, may be taken as an elective study after the first year. The course of lessons includes landscape, still-life, and advanced designing.

In the English high school, the instruction in drawing is given by the director of drawing and his assistant. In the primary and grammar grades, it is given by the teachers under the supervision of the director

and his assistant. In the Rindge manual training school, there are two teachers of drawing, one of mechanical drawing and the other of free-hand, and the work is done under their immediate instruction.

The following is from the report presented by the committee on special studies: —

The subject of art study is pursued according to the plan adopted by the committee about five years ago. The director of drawing and his assistant divide the work in the schools so that each class in the primary and grammar schools is visited on an average once each month. Two-fifths of the assistant's time is given to the first year's class in the English high school and the remaining three-fifths to the primary schools.

The director of drawing gives the greater portion of his time to the grammar grades, visiting occasionally the primary classes and also giving weekly two hours to advanced classes in drawing and water color painting at the English high school. He supervises the work in the evening drawing schools, and instructs a volunteer class of teachers each Monday evening during the season of the evening schools.

The visits to the primary and grammar classes are for the purpose of inspecting the work done by the children, and also to illustrate the work to be done in the near future. It is important that the children should see the way work in drawing, designing and coloring is done by experts, and this opportunity comes to them through the visits of the supervisor and his assistant.

Besides the illustrations that may be executed before the class, the pupils are frequently treated to an exhibition of finished work, whereby they are enabled to form some idea of standards in workmanship and artistic qualities.

Perhaps no feature in the art course has greater interest for the children than the exercises in color study. Many of the lessons in this course are so connected as to make nature-drawing, designing and geometrical drawing, stepping stones, as it were, to the harmonious finish of some theme involving form, shade values and color.

The elementary science of color is very well covered in a series of exercises in color-mixing and in the several harmonies, as dominant, complementary, analagous and complex, the work necessary to a sound foundation in this subject. The children delight in doing even these unpicturesque diagrams by which is acquired, incidentally, considerable skill in drawing with the brush. The brush is, of course, a drawing tool that is more difficult to manipulate than pencil or chalk, but it is superior to either for some lines of work, and few children can be found that are unwilling to put forth their best efforts in color study. The enthusiasm in the subject is general among the pupils and teachers.

MUSIC.

The National and Educational Courses in Music are used by the regular teachers in the primary and grammar grades under the supervision of the director of music and his assistant. In the high schools it is given by the director. Every pupil who is capable of learning to sing is required to give attention to the subject.

In the Latin, English high and Rindge manual training schools, forty-five minutes a week are given to the study of musical form and expression as found in choruses, quartettes, etc., from the standard operas and oratorios.

Elementary harmony, counterpoint and composition have been introduced as elective studies for the second and first classes, and boys as well as girls having a special aptitude for music naturally elect these studies, the only requisite being some knowledge of the pianoforte. Pupils of the fourth year in the English high school may elect harmony in place of astronomy, and those intending to go to a normal school are advised to take the course in harmony.

The students are instructed in scale formation, intervals, a logical and comparative view of all true chords, in order to give them the power to construct and resolve these chords for themselves.

The study of harmony is carried well into modulation, and of counterpoint through four simple orders or species, including both the major and minor modes. Harvard College has passed a vote allowing a knowledge of harmony to count in an entrance examination to both Harvard College and the Lawrence Scientific school.

Two periods of fifty minutes each week are devoted to instruction, and occasionally the best compostions of the students are sung or played before the entire school, showing in this way the practical side of the work which will prove an important factor in future teaching.

In the Rindge manual training school the young men are taught to sustain their parts without accompaniment in compositions of four part harmony, (first tenor, second tenor, first bass and second bass) the music being selected and arrainged for this purpose.

Fifteen minutes a day in the primary, and ten minutes a day in the grammar grades, are devoted to this study; and pupils in the grammar grades are taught to sing and sustain their parts in reading compositions in two, three and four parts.

Memorizing music is a feature in all the grades, including the high schools, and in all graduating exercises it is expected that the music by the pupils will be sung or played without notes. To this end rote singing in all the schools forms a part of the instruction in reading music.

PHYSICAL TRAINING.

The Ling system of physical training is used in the primary and grammar schools. Seven grades are regularly supervised, the classes of the eighth and ninth grades being supervised only when special request is made by their teachers.

Ten minutes are given each day to the work in the grammar grades and fifteen minutes in the primary grades. The instruction is given daily by the regular teachers in the different class rooms, under the supervision of the director of physical training, who visits each schoolroom as often as time will permit, and who also meets the teachers for special directions from time to time.

During the months of September, October, November, April, May and June, the primary classes have the privilege of out-of-door recesses, gymnastics forming a part of the daily programme during December, January, February and March only.

Games and marching are freely used until the third year, when a stronger emphasis is placed on formal gymnastics. Games are also frequently used in the lower grammar grades.

The essential aim of the teaching is to make the period one of healthful exercise and recreation, and also to counteract in part the tendency to spinal curvatures and flat chests caused by sitting so many hours a day at the school desks.

The following is from the report presented by the committee on special studies: —

The director of physical training urges that more time be given to gymnastic exercises in the grammar schools. Although supervision is not required in the eighth and ninth grades, several of the teachers of these grades have asked for assistance which has been gladly given so far as time would permit. The director again makes the suggestion that the wide corridors or the large basements of the new buildings be utilized for gymnastics. She also suggests that a plan be developed for extending the work permanently into the eighth and ninth grades and making it of such a character as to ensure physical gain and in this way form a link which shall connect the grammar schools with the high schools.

SEWING.

Sewing is taught to the girls of the three lower grades in the grammar schools, and to the boys of the fourth grade who desire the instruction. Forty minutes are given to the work once a week in each grade.

All the boys are learning to sew, the regular teacher having oversight of their work. The first lessons in sewing are spent in learning the use of the thimble and needle, in threading the needle, making knots, and fastening ends. Running stitches are made during this time on ruled pieces of cloth. Neatness is insisted upon from the beginning. Stamped patterns of stars or circles are worked in running stitch by the more forward. Then basting by measure is taught. Measuring cards are provided for this, and the stitches are made one-half inch in length, with spaces of one-eighth of an inch. All work is upon practice pieces, with colored thread. The first piece has three lines for running stitches and two for basting.

The second practice piece is of double cloth and has two lines of basting. On this piece stitching is taught, the children imitating machine stitching as nearly as possible. Two lines are done by all, and four lines by the best sewers, who also stitch their initials in the centre.

For the boys' sake, buttons are brought from home to be sewed on. Strips of cloth for this are basted by those who finish stitching before the others. The shoe button comes first as the simplest, then the two-holed button, then the four-holed. This is the kind of sewing most liked by the boys.

Those who first finish buttons, baste strips for overhanding. This is the last stitch taught in this grade. Those who wish, bring pretty pieces of cloth and make pin-balls. At the end of the year the boys take home all their work. The girls keep theirs for reference the next year.

The work in the fifth grade begins with folding and basting hems, the practice piece having a half inch hem on one edge, and a quarter inch hem on the other. Hemming is practiced until fairly well done, before beginning the model apron of calico, which is then hemmed on the sides and at the bottom.

In January the aprons are laid aside while gathering is taught. The rule for gathering is copied upon paper, and then practised upon cloth, with attention to the proper position of the hands. Stroking the gathers follows, and the new work is then applied to the model apron. The gathers are stitched to the belt, and the apron carefully finished.

Model pillowcases are given to those who have time to make them, which gives a little practice in overcasting.

Those who finish the year's work take home all the practice work of the two years.

During the first term in the sixth grade those who completed the fifth grade work are taught to make buttonholes, while the others finish their model aprons. After vacation all begin together upon darning on canvas. This being finished, they learn to run a thin place in stocking material, and then to darn a hole. When the darning is finished, buttonholes are

taken up again, and then matched patching. Those who have time for extra work practice feather stitching. Throughout the course great care is taken in securing the ends of the thread in beginning, joining and fastening off. The work now requires the services of two teachers besides that of the director.

The following is the course in sewing: *Fourth Grade.* Running, basting, stitching, sewing on buttons, overhanding and making pin-balls. *Fifth Grade.* Hemming, gathering, stroking gathers, model apron, overcasting and model pillowcase. *Sixth Grade.* Buttonholes, darning on canvas, darning a thin place in stocking, darning a hole in stocking and matched patching.

SCHOOL LIBRARIES AND THE PUBLIC LIBRARY.

The English high school has a library of about three thousand volumes. The Latin school has only about one-third of this number. Comparatively few books of a miscellaneous character have been added to these libraries for several years, the public library meeting the demand for such books. The need of the schools is for books of reference and for sets of books for class study.

The grammar schools, with the exception of the Morse and Webster, are not supplied with books for general reading. These are obtained from the public library, and during the year twelve thousand two hundred sixty-four books have been delivered to the schools.

The following is from the report of the librarian to the trustees of the Cambridge public library: —

A vigorous attempt has been made during the last half of the year in the direction of closer coöperation between the work of the library and that of the schools. The most important step in this matter was taken in the appointment in May of a new assistant, Miss Alice O'Brien, a native of Cambridge and a graduate of Boston University, to take charge of the children's room and of the special work of visiting the schools in the interest of the library. As a further means of stimulating interest in this work of coöperation, short, informal talks on the use of the library and of the children's room have been given by the librarian and Miss O'Brien in all of the grammar schools of the city, exclusive of the primary grades.

The results have exceeded all expectations. Not only did the talks seem welcome to the pupils in the schoolrooms, but they induced many to come to the children's room of the main library from long distances, partly to pay it a visit and partly to take out new cards and books. On Saturdays, especially, the children's room has been crowded, and the increased demand for books has left the shelves, at times, almost empty. The need of a larger appropriation to meet this special demand becomes more and more evident.

EVENING SCHOOLS.

This account of the evening schools is given by Mr. Hubbard, the agent of the school committee, who has the general supervision of these schools. The superintendent desires to call special attention to the suggestions in the report that the drawing class which now occupies rooms in the Central square building be transferred to the drawing room of the Rindge manual training school, and also that the Rindge manual training school be opened for evening classes.

There are seven evening schools — two drawing schools, one high school, and four elementary schools. In accordance with the rules of the school board, there are two terms of the evening schools. The first term begins on the second Monday of October, and continues every Monday, Wednesday and Friday evening until the end of the week before Christmas. The second term begins on the first Monday, Wednesday or Friday evening after the opening of the day schools in January, and continues thirty-five evenings. The sessions begin at half past seven and continue two hours. No session is held on the evening of a holiday, or during the vacations of the day schools.

The evening drawing schools are under the supervision of the director of drawing for the day schools. There are two of these schools, one for instruction in mechanical drawing, which occupies four rooms in the Central Square building, and one for instruction in free-hand drawing, which occupies the drawing room in the English high schoolhouse. In the mechanical school two courses are provided,— a three years' course in machine drawing, and a three years' course in architectural drawing. In the free-hand school provision is made for a three years' course in free-hand drawing. Diplomas are given to graduates of either course.

The evening high school is held in the English high school building, and offers a three years' course of instruction in the following subjects: arithmetic, bookkeeping, penmanship, English composition, English literature, civics, history, algebra, geometry, stenography, Latin, French and German. Diplomas are granted to graduates of the three years' course.

The elementary evening schools occupy rooms in four of the grammar school buildings, the Putnam, Roberts, Shepard and Webster. Reading, writing, arithmetic, geography, language, history and bookkeeping are taught in these schools in classes, so far as classification is possible, but a large part of the work is individual. No definite course is arranged, but an opportunity is offered to pupils to prepare to enter the evening high school, and certificates of admission are given to those who are qualified to begin the work in that school. In addition to the subjects given

above, classes in civil service, sewing, dressmaking, millinery, wood working and mechanical drawing are formed when a sufficient number express an intention to take any one of these courses.

The following table shows the attendance of the evening schools for the year 1903–1904: —

	Number Registered	Average Attendance	Average No. of Teachers*	Average No. of Pupils to a Teacher	Number of Graduates
Mechanical Drawing....	113	73	4	18	15
Free-hand Drawing.....	54	29	2	15	6
High School	362	154	10	16	11
Putnam School.....	572	215	18	12	17
Roberts School.....	535	218	17	13	23
Shepard School.....	144	70	7	10	11
Webster School.....	182	63	6	11	15
Total.....	1,962	822	64	13	98

*The principals and curators are not included in these averages.

The following table shows the cost of the evening schools for the year 1903–1904: —

	Cost of Instruction	Cost of Text-books and Supplies	Cost of Light, Fuel, and Janitor	Total Cost	Cost per Pupil
Mechanical Drawing....	$911 00	$43 53	$185 44	$1,139 97	$15 62
Free-hand Drawing.....	432 00	19 39	87 83	539 22	18 58
High School.....	1,577 50	48 24	878 30	2,504 04	16 26
Putnam School.....	2,127 50	129 55	554 05	2,811 10	13 07
Roberts School.....	1,979 00	125 33	436 74	2,541 07	11 66
Shepard School	870 50	22 03	127 00	1,019 53	14 56
Webster School.....	731 00	15 16	206 19	952 35	15 12
Total.....	$8,628 50	$403 23	$2,475 55	$11,507 28	$14 00

The above tables show that the total registration of the evening schools for the term of sixty-three evenings during the year 1903–1904 was one thousand nine hundred sixty-two, an increase of one hundred eleven over that of the preceding year, and the average attendance was eight hundred twenty-two, an increase of ninety-nine.

The total cost of all the evening schools was $11,507.28, an increase of $1,311.01 above that of last year, but the cost per pupil was $14.00, a decrease of $0.10 per pupil on the average attendance.

The mechanical drawing school occupied four rooms in the Central square building suitable in no respect for the accommodation of the one hundred thirteen men who were registered. Ten less were registered than last year, but the average attendance for the sixty-three evenings was

seventy-three, an increase of four over the preceding year. Fifteen men received diplomas of graduation from the three years' course, — nine from the architectural course, and six from the course in machine drawing.

If this class could be transferred to the drawing room of the Rindge manual training school, better facilities for the work would increase the value of the school to the members and to the city. Many who register soon drop out because of unfavorable conditions, and this year it was necessary to refuse admission to many because of lack of room.

The free-hand drawing school was held in the drawing room of the English high school. The number registered was fifty-four, eleven young men and forty-three young women, ten less than last year. The average attendance was twenty-nine, the same as the preceding year. Two teachers and a curator were employed, and Mr. Roos, the director of drawing, gave much time to this school and in connection with it he gave instruction to a class of teachers of the day schools every Monday evening.

The evening high school occupied ten rooms in the English high school building and employed eleven teachers and a secretary. The number registered was three hundred sixty-two, one hundred eighty-nine young men and one hundred seventy-three young women, a decrease of seventeen from last year. The average attendance was one hundred fifty-four, a decrease of two. Especial interest was noted in the classes in English, stenography and typewriting, bookkeeping and sloyd.

The Putnam elementary school occupied eight rooms and the hall in the Putnam schoolhouse and employed nineteen teachers. The registration was three hundred ten men and boys and two hundred sixty-two women and girls, one hundred thirty-six more than last year. The average attendance was two hundred fifteen, an increase of fifty-seven for the sixty-three evenings. The notable features of this school were large classes in dressmaking, civil service, and of those who were unable to speak the English language. Excellent work was done.

The Roberts school occupied nine rooms and the hall in the Roberts schoolhouse and employed eighteen teachers. Three hundred seventy-eight men and boys and one hundred fifty-seven women and girls were registered, an increase of thirty-four. The average attendance was two hundred eighteen, an increase of twenty-eight. A very interesting feature of this school was the large class of beginners in English. Classes in civil service, dressmaking and sloyd were also taught.

The Shepard school occupied three rooms in the Shepard schoolhouse and employed eight teachers. Eighty-nine men and boys and fifty-five women and girls were registered, an increase of seven. The average attendance was seventy, an increase of seventeen. The branches of the primary and grammar grades were taught.

The Webster school occupied four rooms in the Webster schoolhouse and employed seven teachers. The registration was one hundred fourteen men and boys and sixty-eight women and girls, a decrease of twenty-nine. The average attendance was sixty-three, a decrease of five. Only the usual branches were taught.

The instruction in sewing has been very successful in the two schools in which it has been taught, the Putnam and the Roberts, as was shown by the exhibition of sewing at the English high school building the last evening of the term.

Devoting the last hour of the session of Friday evenings to lectures has proved popular and has added to the interest and attendance of the schools. Some provision for instructive lectures would be a profitable addition to the evening school educational work. Many cities provide such lectures.

Again the committee would call the attention of the Board to the desirability of opening the Rindge manual training school for evening work for boys who have left school and are learning trades in our shops and factories. That this extensive and costly plant should be in operation only six hours a day seems a waste of opportunity. Other cities have established such evening schools and they have proved a great benefit to many who were deprived of such privileges by being compelled to earn their own living early.

The average attendance at the schools during the first week of the term beginning October 10 last was one thousand two hundred forty-one, an increase of one hundred fifty-three over the corresponding week of last year. A class in sewing has been formed in the Shepard school and increased interest in sewing is noticeable in the Putnam and Roberts schools. In addition to instruction in dressmaking, which was so successful last year, instruction in millinery has been introduced in the Putnam school for those who were in the dressmaking classes last year, and it is proving very successful.

VACATION SCHOOLS.

The following is the report of the committee on vacation schools: —

In compliance with an order adopted April 21, the superintendent submitted a report at the meeting of the Board in May of the number of children wishing to attend the vacation schools which was as follows: —

Ninth grade	25	Fourth grade	425
Eighth grade	68	Third grade	641
Seventh grade	131	Second grade	656
Sixth grade	302	First grade	706
Fifth grade	341		
		Total	3,295

Only the grammar grades were provided for. Twelve hundred eighty-nine cards of admission were delivered through the schools and about one hundred were given to pupils who came to the office.

All of the schools began Wednesday, July 6, and continued five weeks. The classes in cooking and sloyd at the English high school building were continued six weeks.

The older pupils were taught sloyd and drawing, cooking, dressmaking and basketry. The younger ones, reading, drawing and other studies of an interesting and profitable character.

The following table shows the number that joined these classes and the average attendance in each class: —

Schools	Studies	Number Registered	Average Attendance
Rindge Manual Training School	Sloyd and Drawing	104	74.1
English High School	Sloyd and Drawing	131	71 4
English High School	Academic	44	24.9
English High School	Basketry	65	38 0
English High School	Cooking	105	63.5
English High School	Dressmaking	58	35.3
Putnam School	Sloyd and Drawing	74	52 6
Putnam School	Academic	115	78.1
Putnam School	Dressmaking	135	80.1
Roberts School	Sloyd and Drawing	75	45.8
Roberts School	Academic	161	98.6
Roberts School	Dressmaking	66	35 4
Shepard School	Academic	49	25.7
Shepard School	Dressmaking	55	29.6
Webster School	Academic	37	25.1
Webster School	Dressmaking	35	24 8
		1,309	803.0

The cost of the schools was $1,836.67 for salaries of teachers, and $120.76 for supplies. The cost per pupil based on the average attendance was $2.44

It is recommended that these schools be continued during the next summer vacation and that a suitable appropriation be asked for for this purpose.

TRUANT OFFICERS.

Four officers are employed. The city is divided into four districts, and each officer has assigned to him the schools in one district. Among their duties are the following: to visit each school at least once a day, unless otherwise directed by the agent; to prevent children from loitering about the school premises; to notify the teachers of all cases of con-

tagious and infectious diseases reported by the board of health; to attend the evening schools when so directed by the agent of the Board to assist in the preservation of order, and to visit places of business where children are employed to see that none are employed unlawfully. They make all complaints for truancy, absenteeism, or school offences at the district court, attend the trials as witnesses, and take boys to the Middlesex county truant school when they are sentenced.

By the rules of the school board the work of the truant officers is done under the supervision of the committee on schoolhouses; and under the direction of this committee, it is the duty of the agent of the Board to consider all cases of truancy, of persistent violation of the rules of the school, of juvenile vagrancy, of unlawful detention from school, of neglect by parents; and of any failure on the part of pupils or parents to comply with the rules of the school committee or the public statutes relating to school attendance. It is also the duty of the agent to direct the officers to make complaints; to certify the records in these cases when presented before the district court; and to exercise such supervision of the boys who are sent by the court from Cambridge to the truant school as may be allowed under the statutes.

The following is from the report of the committee in charge of the work of the truant officers: —

The four truant officers, Messrs. Cabot, Carmichael, Porter and Riley, have continued to do excellent service as in the past. They have investigated twelve thousand five hundred one cases of absence, seven hundred thirty-nine of which proved to be truancy; five hundred eighteen, first offence, one hundred seven, second or third offence, and one hundred fourteen, fifth or more offence.

They have entered complaints against thirty boys. Eighteen were sentenced for truancy, five as school offenders, and seven were put on probation by the court. This is eight complaints less than last year.

The parochial schools are coöperating more or less heartily with the officers to prevent the truancy of boys.

The cigarette vice is the worst enemy with which we contend in the matter of truancy. Every boy taken to court bears the stamp of this curse in a greater or less degree. It makes them unreliable at home and at school and saps their physical, mental and moral powers.

At the beginning of the year we had thirty-seven boys in the truant school; twenty-eight have been discharged and twenty-three sentenced, so that there are thirty-two now at the school from Cambridge.

The city has paid for the board, clothes and schooling of these boys, $2,184.43, or $68.26 each for the year, and most of them have been better cared for than would have been possible in the homes from which they

came. Parents, officers, and others who have opportunity to observe, testify that the boys return much improved physically and in general behavior, giving promise of more useful lives.

The school census was taken by the officers and their assistants, and shows that there are seven thousand seven hundred forty-three boys and seven thousand nine hundred thirty-five girls in the city between the ages of five and fifteen years. This is an increase of eighteen boys and one hundred forty-eight girls over last year. The following is the summary of the school census for 1904: —

Number of children in the city between five and fifteen, boys, 7,743; girls, 7,935	15,678
Number in public schools between five and fifteen	12,235
Number in private schools between five and fifteen	3,177
Number not attending school between five and seven	121
Number not attending school between seven and fourteen	34
Number not attending school between fourteen and fifteen	111
Whole number not attending school between five and fifteen	266
Number in the city between five and six	1,615
Number in the city between seven and fourteen, boys, 5,510; girls, 5,599	11,109

It appears from statistics procured by one of the truant officers that there are twelve private schools in Cambridge which contain three hundred thirty-two pupils and receive $38,090 tuition money, and five parochial schools having three thousand seven hundred fifteen pupils.

CONTAGIOUS DISEASES.

In 1894 the board of health, in accordance with the request of the school committee, appointed a physician, whose duty it is to examine all cases of contagious diseases reported, and to direct the exclusion from the schools of all pupils whose presence will, in his opinion, be a menace to the health of others. He reports his action on every case to the secretary of the school committee. The physician issues all certificates authorizing such children to return to school, as provided by Chapter 44, Section 6, of the Revised Laws.

As a further precaution against contagious diseases, the board of health established, February 26, 1896, a system of medical inspection of children in the schools. The city was divided into six districts, in each of which a physician was appointed to visit the schools in that district. The duties of these physicians as now defined are as follows: to visit the schools subject to their inspection during the morning session of every school day; to examine such children as are indicated to them by the

teachers; to inspect such other children or such parts of the building as they deem necessary for the protection of the pupils, examining at least one school each day; to recommend to the principals to send home immediately any pupil whom they may suspect of having any infectious or contagious disease, and also, in cases of nearsightedness or deafness of pupils, to advise the parents to have the eyes or ears of such pupils examined. On the first of each month, the physicians send a report of their work to the board of health.

The principal of each school is required to read the following at the beginning of each term in all the rooms under his charge: —

"Any teacher or pupil who visits any apartment in which a person has been sick within two weeks, or which has been exposed within that time to contagion of smallpox, varioloid, diphtheria, or scarlet fever, shall not be allowed to attend school until the expiration of two weeks after such visit."

The agent of the school committee reports that during the year December 1, 1903, to December 1, 1904, the following cases of contagious diseases have been reported by the board of health to the office of the agent, and by the truant officers to the schools: —

Diphtheria	356 cases
Scarlet Fever	1,140 "
Membranous croup	15 "
Measles	493 "

TERMS, HOLIDAYS, AND SCHOOL HOURS.

The school year is divided into three terms,—the autumn, the winter, and the spring term.

The time for beginning the autumn and spring terms, and for closing the winter and spring terms, is fixed annually at the regular meeting of the committee in February. The autumn term ends December 23. The winter term begins on the first school day after that celebrated as New Year's Day.

The holidays are Saturdays Thanksgiving day, with the preceding day and the day following; the twenty-second of February; the nineteenth of April; Memorial day; the seventeenth of June; and in addition to these, for the high schools, Commencement day at Harvard University.

The sessions of the high schools begin at 8.30 A. M., and end at 1.30 P. M. The sessions of the Rindge manual training school begin at 8.30 A. M., and end at 2 P. M. These schools have a recess of half an hour in each session.

With the exception of the Russell school, the morning sessions of the grammar and primary schools begin at 9 and end at 11.45. The afternoon sessions begin at 2 and end at 4, except during the months of November, December, and January, when they begin at 1.30 and end at 3.30. The grammar schools have no outdoor recess. In the primary schools the principal may, at her discretion, substitute an outdoor recess for the period at present devoted to physical training. The sessions at the Russell school begin at 8.30 A. M., and end at 1.30 P. M.

The sessions of the kindergartens are from 9 A. M. to 11.50 A. M.

There are two terms of the evening schools. The first term begins on the second Monday of October, and continues every Monday, Wednesday and Friday evening, until the end of the week before Christmas. The second term begins on the first Monday, Wednesday or Friday evening after the opening of the day schools in January, and continues thirty-five evenings. Vacations and holidays are the same as in the day schools. The sessions begin at 7.30 P. M., and continue until 9.30 P. M.

TEACHERS, APPOINTMENTS, RESIGNATIONS.

There are now four hundred thirty-five teachers in the schools, thirty-six of whom have been appointed during the year. Twenty-four have resigned, two have been given leave of absence for rest or for some special reason, one has died, and one is absent for study or travel under the following rule of the school committee: —

"Any teacher who has served in the city for ten years may, on recommendation of the superintendent and vote of the Board, have leave of absence for one year for purposes of study or travel, and may receive one-third of his salary, provided the amount in no case shall exceed five hundred dollars."

Since the adoption of this rule in 1896, seventeen teachers have had leave of absence for purposes of study or travel,— seven from the high schools, six from the grammar schools, three from the primary schools, and one from a kindergarten.

Among the teachers who have resigned, there are four who have been connected with the schools for a long series of years. Miss Marianne M. Webb began her work in 1864; Miss Lucy C. Wyeth in 1867; Miss Mary E. Nason in 1870; and Miss Emma A. Hopkins in 1872. All of these teachers rendered efficient and faithful service. Special mention should also be made of the work of Mrs. Alice G. Teele. She taught in the Webster school from 1875 to 1882, rendered important service as a substitute teacher in several schools, and in 1897 was appointed master's assistant in the Russell school. At the meeting of the school committee in April, 1904, she resigned her position to accept the superintendency of the Franklin Square House, Boston, a position for which her remarkable executive ability admirably fits her. Her services in the Russell school, however, were retained a part of each day until the close of the school year.

Among the teachers in service, one has been promoted to be a master in a grammar school, one to be a ninth grade teacher, and one to be the principal of a primary school.

This report is for the year 1904, but a death has occurred so near the beginning of the year 1905, that it seems best to make mention of it in this report. Miss Sarah S. Wells, principal of the Corlett kindergarten, died January 16. She was appointed assistant in the Gore kindergarten in 1894, and was transferred to the Corlett kindergarten as principal in 1897. She was an earnest, faithful teacher, and was highly esteemed by all who knew her.

QUALIFICATION OF TEACHERS.

A person to be eligible to the position of teacher in a kindergarten must have had a course in a high school, a course in a kindergarten normal school, a year's experience in teaching either in a kindergarten or a primary school, and must be able to play the piano; to be eligible to a position in a primary or grammar school, he must have had a course in a high school, a course in a normal school, and a year's experience in teaching; to be eligible to a position in a high school, except in the manual training department of the manual training school, he must be a college graduate. Equivalent preparation may be accepted. Preparation for the work of teaching as shown by years of study, and experience as shown by years of teaching, may be considered in fixing the salaries of teachers at the time of their nomination.

Two months after a teacher has been nominated to a position in a kindergarten or any school below the position of principal or master in a high or a grammar school, two experienced teachers who are not connected with the school in which the nominee is to serve, are designated by the superintendent to examine the teacher so nominated, while at work, and they report in writing to the superintendent; these reports, together with the testimonials and other papers relating to the qualifications and character of the teacher so examined and of all other nominees, are kept on file in the office of the superintendent and are open to inspection by members of the Board only.

The committee on teachers considers all nominations made by the superintendent. This committee confers with the superintendent, considers the reports of the examiners designated by him, makes further inquiry at discretion and reports to the Board.

Any nomination referred to the committee on teachers, unless confirmed, lapses at the expiration of six months, not counting the summer vacation. A person who has failed of confirmation is not to be nominated to a similar position within two years, except on the approval of the committee on teachers.

This committee inquires and reports to the Board in executive session as to the success of any teacher in the employment of the city when so requested by any member of the Board or by the superintendent, and no teacher under such inquiry receives the regular increase of salary, except on the recommendation of this committee.

Under the direction of the superintendent, teachers may visit other schools to observe the discipline and instruction. They may be required to attend teachers' meetings or courses of instruction in methods of teach-

ing for one hour a week. Such meetings may be held on Saturday mornings during term time or at such other time, not in school hours, as the superintendent may direct. Meetings in addition to those indicated above may be held by the superintendent or may be called by him, on request of directors in special subjects.

SALARIES OF TEACHERS AND SCHOOL OFFICERS.

Latin School and English High School.

Head Masters	$3,000 00
Masters	2,000 00
Masters' Assistants	1,200 00
Teachers, first year	700 00
with an annual increase of $50 until $950, the maximum, is reached.	
Assistant Teachers, first year	500 00
" " second year and each succeeding year	600 00

Rindge Manual Training School.

Head Master	$3,000 00
Master's Assistant	1,300 00
Teachers' salaries range from $700 to $1,500.	

Wellington Training School.

Master	$2,500 00
Supervising Teachers (three) first year	900 00
" " second year and each succeeding year	1,000 00
Master's Assistant, first year	800 00
" " second year and each succeeding year	900 00
Teachers of the eighth grade	700 00
Teachers of the seventh grade (one year's experience)	450 00
Teachers of the other grades	250 00

Grammar and Primary Schools and Kindergartens.

Masters of grammar schools	$2,000 00
Submasters, first year	1,000 00
with an annual increase of $100 until $1,400, the maximum, is reached.	
Masters' Assistants, first year	800 00
" " second year and each succeeding year	900 00
Teachers of the ninth grade, first year	750 00
" " " " second year and each succeeding year	800 00
Special Teachers in grammar schools, first year	700 00
" " " " " second year and each succeeding year	750 00
Principals of primary schools, first year	700 00
" " " " second year and each succeeding year	750 00
with five dollars additional for each room under her supervision.	
Teachers of grammar and primary schools and of kindergartens, first year	450 00
with an annual increase of $50 until $700 is reached.	

Assistant teachers, that is, teachers not in charge of a room, are paid $450 the first year, $500 the second, and $550 the third and each succeeding year; and, in the case of assistants in the kindergartens, $600 for the fourth and each succeeding year.

Substitutes.

The pay of a substitute teacher in a high school, who is employed temporarily, is $2.50 a day; if employed one month or more, it is at the rate of $500, $600 or $700 a year, the sum to be determined by the superintendent, who shall consider the experience of the teacher and the position to be filled, in fixing the sum.

The pay of a teacher who in employed temporarily as a substitute in a grammar school, a primary school, or a kindergarten, is $1.00 a session; if employed one month or more, it is at the rate of $450 a year.

Special Teachers and Officers.

Director of Music	$2,000 00
Assistant Teacher in Music	850 00
Director of Drawing	2,000 00
Assistant Teacher in Drawing	800 00
Director of Nature Study (three-fifths time)	1,000 00
Director of Physical Training	950 00
Instructor of Physical Training in the High Schools	800 00
Director of Sewing	700 00
Teachers of Sewing	600 00
Superintendent of Schools	3,500 00
Supervisor of Primary Schools	1,300 00
Agent of the Board	2,100 00
Truant Officers (four are employed)	1,000 00
Secretary of the School Committee	400 00
Page of the School Committee	25 00
Secretary and Librarian of the Latin School	600 00
Secretary and Librarian of the English High School	600 00
Secretary and Librarian of the Rindge Manual Training School	600 00

Evening Schools.

Principal of Mechanical Drawing School, per evening	$4 00
Principal of High School " "	4 00
Principal of Elementary Schools " "	3 00
Teachers in Drawing Schools " "	3 00
Teachers in High School " "	2 00
Teachers in Elementary Schools " "	1 50

ENGLISH HIGH AND NORMAL SCHOOL.

In December the number of pupils in the Latin school was five hundred forty-eight, two hundred forty-four boys, three hundred four girls; in the English high school there were five hundred sixty-nine pupils, eighty-nine boys, four hundred eighty girls, and in the Rindge manual training school there were four hundred eleven boys.

It appears that the English high school is now largely a girls' school. In connection with it, would it not be wise to establish a normal training department in which the course of study should be extended two years and be equivalent to that in our State normal schools? This would meet the requirements for admission to the Wellington training school and enable our Cambridge girls to obtain here in Cambridge a thorough preparation for the work of teaching.

The English high school has every facility for this work. It has a chemical department, a department of physics, a commercial department, a domestic science department, and a department in sloyd. The instruction in music and physical training could be extended to cover the instruction given in normal schools, and the director of drawing and the director of nature study could give the instruction in their respective departments.

In addition to this there is no doubt that arrangements could be made with Harvard University by which these pupils could attend one or more courses in the pedagogical department there. The head master of the English high school has special preparation for this work, and there is no question as to the qualifications of the other teachers for the several departments of instruction. The superintendent commends this part of his report to the high school committee.

AN UNGRADED SCHOOL.

Truants and habitual school offenders can be sent to a truant school. Truant boys are not necessarily bad boys, and boys known as habitual school offenders under changed circumstances become responsive to new influences. Years ago before the appointment of truant officers there was a boy in the Putnam school who was frequently a truant, and this had been the case for two years under two different teachers. He came under the charge of a third teacher. It was the practice of this teacher to endeavor to awaken the interest of her pupils in some things outside of the routine work of the school. One day the mother of this boy came to enquire when the next special talk of the teacher would be given, adding that she wished her son to go on an errand which would take him out of

school for a half day and that he was unwilling to be absent on the occasion of one of these special talks. The truant boy had become interested in his work.

A boy in a neighboring town was brought by the superintendent of schools to a teacher who afterwards taught in Cambridge. The superintendent said: "I have brought this boy to you, although he does not belong in your district, for unless you can manage him he must go to the truant school." The teacher received the boy in the right spirit and arranged for his work. A few days later she noticed that something was attracting the attention of the pupils sitting near this boy. She went to his desk and found that he had a bottle containing two or three tadpoles. She reached her hand for the bottle (the boy scowled) and as he gave it to her she said: "I will put it on my desk, and when school is done you can come and get it." At the close of school the boy came for his bottle. The teacher had a pleasant talk with him, and found that he was interested in *things*. "I have a book at home," she said, "that will tell you about many of the things in which you seem to be interested. I will bring it tomorrow." The boy did not go to the truant school.

These are special cases, but connected with the schools all over the city there are boys who are truants from time to time; there are boys who take little or no interest in their work. Nor is it strange that this is so. Many of these boys have no helpful influences at home, in fact, they have no home worthy of the name.

During the past thirty years the question of an ungraded class has several times been under consideration. Five years ago the experiment was tried with a good degree of success in what was then the Allston school, a new school occupying all but one room in the old Allston building. This school increased in numbers rapidly and soon required the whole building for its own use, and the ungraded class was given up.

The superintendent believes that circumstances are now favorable to the establishment of an ungraded class. The Merrill school building and yard afford almost ideal conditions for this purpose. The building contains two unoccupied schoolrooms, an assembly hall, and a room well adapted to sloyd purposes, and it has the largest yard in the city.

It may be said at first that it will not be wise to bring together pupils of an ungraded class and those of a primary school and kindergarten, and this would be true were it the intention to retain in the school for any length of time any pupil who did not respond to its special influences. The large yard could be divided into garden lots and assigned to the care of the different classes. The sloyd room, and the things made there, would be of constant interest to the older pupils, and in many ways the assembly hall could be used to make school life more attractive and profitable.

It costs the city about sixty dollars a year for every Cambridge boy sent to the truant school at North Chelmsford. At the present time there are thirty-two boys from Cambridge connected with this school. If the boys when sentenced were put on probation and sent to the Merrill school, as no doubt the judge would gladly permit, is there any doubt that more than half of them would become interested in their work and not need the special discipline of the truant school. A thousand dollars saved from the expenditure for truants would go far towards meeting the added cost of the Merrill school; but it is not the question of dollars and cents that should be considered, it is the question of saving boys for useful lives.

Is it not wise that this experiment should be tried under these favorable circumstances for success?

RESIGNATION OF THE SUPERINTENDENT OF SCHOOLS.

It seems desirable that the facts relating to the resignation of the superintendent of schools should have permanent record in this report. At the meeting of the school committee April 21, 1904, the following communication from the superintendent was received : —

To the School Committee of Cambridge :

At the meeting of the school committee on the fourth of April, 1854, I was elected temporary teacher of the Putnam grammar school in place of Mr. Lassell who was absent on account of ill health. Mr. Lassell did not regain his health, and at the annual election of teachers on the ninth of August of the same year, I was chosen to fill the vacancy caused by his resignation.

For more than twenty years I served the city as principal of that school. On the third of September, 1874, I was elected to the position which I now hold. I am, therefore, on my thirtieth year of service as superintendent of schools, and have already completed fifty years of service in the schools of this city.

For the past few years I have looked forward to the completion of this school year as the time when my connection with the schools should end. I make this announcement at this early date that the committee may have ample time to consider the qualifications of candidates for this important and desirable position ; and I congratulate my successor in advance, for Cambridge is a city in which teachers superintendent and all connected with the schools are treated with the utmost kindness and consideration by the school committee.

I also take this opportunity to acknowledge the uniform courtesy shown me by the several superintendents of public buildings with whom I have come into close relations.

Respectfully,

Francis Cogswell,

Superintendent of Schools.

This communication was referred to a special committee of which the president of the Board was the chairman.

Under date of April 29 this committee, through its chairman, sent to the superintendent the following letter : —

Mr. Francis Cogswell, Superintendent of Schools, Cambridge.

Dear Mr. Cogswell, — In accordance with the following vote, "that the chairman be a sub-committee to convey to Mr. Cogswell the expression of the opinion of this committee that it will be for the best

interests of the city that he continue to serve as superintendent of schools for the ensuing year and to urge that he consent to a re-election," which was unanimously adopted, it gives me great pleasure on behalf of the special committee to request most urgently that you reconsider the decision expressed in your letter of April 21, and that you will consent to continue, as superintendent, to care for the interests of the public schools of Cambridge and give them the benefit of the wisdom and experience gained during your long and useful service.

Hoping for a favorable reply, I am,

Yours truly,

WILLIAM TAGGARD PIPER,
President of the School Committee.

In reply to this letter the superintendent under date of May 9, wrote substantially as follows, a part of the letter being omitted:—

Mr. William Taggard Piper, President of the School Committee.

DEAR MR. PIPER,— Your letter informing me of the action of the committee appointed to consider my communication to the school board in regard to my withdrawal from the position I now hold, has received most thoughtful consideration. In reply, let me say in the first place that it is a great satisfaction to me to be assured "that in the opinion of your committee it would be for the best interests of the city for me to continue to serve as superintendent of schools for the ensuing year."

The communication I sent to the Board at the April meeting was written after the most deliberate consideration. In fact the last school report was prepared with special reference to its being my final report.

I appreciate the action of your committee, but I cannot help feeling that it is the appropriate time for me to end my connection with the schools. Your committee thinks otherwise and should its action be approved by the full Board, I shall be willing to continue my work for the present year as superintendent.

Respectfully yours,

FRANCIS COGSWELL,
Superintendent of Schools.

At the meeting of the Board in June the superintendent was re-elected. In accepting the position he presented the following letter which was read and placed on file:—

To the School Committee of Cambridge:

At the April meeting of the Board I made known my purpose of ending my connection with the schools as superintendent at the close of the present school year.

At the request of the committee appointed to consider this communication I reconsidered my decision and consented to serve another year should it be the wish of the school committee. I think it important, however, that it should be distinctly understood that I shall not again be a candidate for re-election.

Thanking the committee for this renewed expression of confidence, I am,

Respectfully yours,

FRANCIS COGSWELL,
Superintendent of Schools.

FIFTIETH ANNIVERSARY.

TWENTY YEARS AS TEACHER . . THIRTY YEARS AS SUPERINTENDENT.

It has been the custom in Cambridge to recognize long service in any department of the city's work. During the past year a banquet was given to Chief Casey of the fire department who had completed fifty years of efficient service and his portrait has been placed in the city hall.

In accordance with this custom the superintendent of schools was given a reception at the close of fifty years of service in the schools of Cambridge. The reception was held in the Latin school hall on the evening of June 27.

The superintendent desires to express his great satisfaction at the arrangements on that occasion, and his appreciation of what was done and said in recognition of his work.

His portrait hangs in the city hall, a picture with which his name is connected although not his gift has been placed in each school building, and in his home there stands a clock whose sweet chimes so long as life lasts will awaken pleasant memories and will bring to mind the many friends who have enriched his life by their kindly acts and words.

In closing this report the superintendent has but one wish to express in regard to the schools — may they prosper in the future even more than in the past!

Respectfully submitted,

FRANCIS COGSWELL,
Superintendent of Public Schools.

REPORT OF THE SPECIAL COMMITTEE FOR THE COGSWELL TESTIMONIAL.

At a meeting of the school committee, held May 10, a special committee was appointed to "arrange for a suitable recognition of the long continued and very valuable services to the public schools of Cambridge rendered by Francis Cogswell who has been superintendent of schools for the last thirty years and has now completed fifty years in educational work in Cambridge." A number of other friends of Mr. Cogswell who had a high appreciation of his services were added to this committee and through their efforts more than fourteen hundred dollars was raised, the teachers in the public schools of Cambridge being among the contributors.

The money was used for a portrait of Mr. Cogswell to be given to the city, for a large carbon photograph, purchased at Mr. Cogswell's suggestion, to be given to each public school, and a hall clock with the following inscription: —

"To Francis Cogswell
Superintendent of Schools
From the Cambridge Teachers
And Other Friends and Neighbors
Through a Committee of His Fellow Citizens
27 June 1904."

On the evening of June 27 a reception was held in the Latin school hall when General Bancroft, on behalf of the committee, presented the gifts to the city and to the schools and they were accepted by the Mayor; President Eliot of Harvard University presented the clock and Mr. Cogswell made a short reply.

It seems proper that a brief report of this mark of the respect and appreciation of his townsmen and fellow workers should be placed on the records of the school committee, and in this connection the committee wishes to quote a minute adopted by the school board June 21, 1900: —

"The members of the school committee, on the completion of the twenty-fifth year of continuous service as superintendent of schools, by Francis Cogswell, tender him their congratulations on this quarter century of loyal, progressive and successful conduct of his office, and wish him many years of further activity. They desire to put on record their appreciation of the earnestness and success of his work, of the progress which the schools have made under his leadership, of the tact and firmness with which he has conducted his manifold duties, and of the good will which he has uniformly won from the teaching staff.

As citizens of Cambridge as well as members of the school committee, they are glad to express publicly their gratitude to him for the service he has rendered to the school system of the city."

Augustine J. Daly,
William Taggard Piper,
Sherman Russell Lancaster,
Seth N. Gage,
Charles H. Thurston,
J. Henry Russell,
Special Committee.

The following is a list of the pictures purchased by the committee, and the names of the schools in which they have been placed: —

Notre Dame Cathedral, Paris		Latin School
The Sistine Madonna	*Raphael*	English High School
St. Peter's, Rome		Rindge Manual Training School
The Fighting Téméraire	*Turner*	Rindge Manual Training School
Anne Hathaway's Cottage, England		Agassiz School
Shoeing the Bay Mare	*Landseer*	Boardman School
Baby Stuart	*Van Dyck*	Boardman Kindergarten
A Distinguished Member of the Humane Society	*Landseer*	Corlett Kindergarten
Modern Egypt		Cushing School
The Sistine Madonna	*Raphael*	Ellis School
Sheep. Spring	*Mauve*	Felton School
The Roman Forum		Fletcher School
Ploughing	*Rosa Bonheur*	Gannett School
Madonna del Granduca	*Raphael*	Gannett Kindergarten
The Angelus	*Millet*	Gore School
Dignity and Impudence	*Landseer*	Gore Kindergarten
The Holy Night	*Correggio*	Harvard School
Dignity and Impudence	*Landseer*	Holmes School
Abraham Lincoln	*St. Gaudens*	Houghton School
Automedon with the Horses of Achilles	*Regnault*	Kelley School
Valley of the Toucques	*Van Marcke*	Lassell School
The Bridge at Concord		Lowell School
The Angelus	*Millet*	Merrill School
Sir Galahad	*Watts*	Morse School
The Aurora	*Guido Reni*	Otis School
The Gleaners	*Millet*	Parker School
The Madonna of the Chair	*Raphael*	Peabody School
The Capitol at Washington		Putnam School
Dignity and Impudence	*Landseer*	Reed School
The Return to the Farm	*Troyon*	Riverside School
Avenue of Trees, Middelharnis	*Hobbema*	Roberts School
The Holy Family	*Murillo*	Russell School
Canterbury Cathedral		Shepard School

The Capitol at Washington		Sleeper School
The Gleaners	*Millet*	Tarbell School
The Horse Fair	*Rosa Bonheur*	Taylor School
By the Riverside	*Lerolle*	Thorndike School
Arch of Constantine		Washington School
The Poets' Corner, Westminster Abbey		Webster School
Niagara Falls		Wellington School
Cathedral at Amiens		Willard School
The Melon Eaters	*Murillo*	Wyman School

In School Committee, February 16, 1905.

Ordered, That the report of the superintendent as read and outlined by him be accepted and adopted as the annual report of the school committee for 1904, and that the secretary be authorized to append the names of the members of the committee thereto.

SANFORD B. HUBBARD,
Secretary.

Members of the School Committee for 1904

AUGUSTINE J. DALY, *Chairman ex officio.*

WARREN P. ADAMS.	MARY E. MITCHELL.
GEORGE W. BICKNELL.	WILLIAM TAGGARD PIPER.
CAROLYN P. CHASE.	J. HENRY RUSSELL.
* SETH N. GAGE.	ARTHUR P. STONE.
EDWARD J. KRONAN.	CHARLES H. THURSTON.
SHERMAN R. LANCASTER.	ROBERT WALKER.
JAMES A. LEW.	† JAMES FRANK WENTWORTH.
‡ CHARLES H. WILLIAMS.	

* Resigned Oct. 20, 1904. † Died April 12, 1904. ‡ Resigned Sept. 15, 1904.

APPENDIX

ORDINANCES

PASSED BETWEEN APRIL 5, 1904 AND MARCH 13, 1905.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE, ENTITLED "DUTIES AND SALARIES, RELATIVE TO THE SALARIES OF THE ASSISTANT ASSESSORS."

Be it ordained by the City Council of the City of Cambridge as follows:—

Section 30 of Chapter 28 of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby amended by striking out the line, "Assistant Assessors each (per day) $4.00," and inserting in place thereof the words, "Assistant Assessors each (per year) $175.00 payable as follows: $62.50 in the month of June, $62.50 in July and the remainder ($50.00) in August." [*Approved April* 8, 1904.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED "AUDITING."

Be it Ordained by the City Council of the City of Cambridge, as follows:—

Chapter 4 of the Revised Ordinances of 1892 as amended to November 8, 1899, is hereby amended as follows:—

In Section 3 by striking out the period at the end of the fifth sentence and inserting in place thereof a comma; by striking out the sixth, seventh and eighth sentences and inserting in place thereof the words "and placed in the hands of the City Treasurer, who shall proceed to pay the same by issuing a combination check and voucher in such form as may be approved by the Committee on Accounts, to each person, organization, corporation or association named in said draft or order;" also by striking out the word "check" in the last sentence and inserting in place thereof the word "draft."

In Section 7, by striking out the word "auditor," in the first line and inserting in place thereof the word "treasurer;" by striking out the word "certificate" in the third line and inserting in place thereof the word "check."

As amended the aforesaid section will read as follows:

SECTION 3.—Before money is paid out of the City Treasury, a requisition thereof in writing, with detailed account attached, specifying the amount to be paid, and the party or parties to whom the payment is due, shall be made by the board or head of department incurring the expenditure, upon the auditor. The Auditor shall receive all such requisi-

tions, accounts and claims rendered against the city, which have been approved and certified as provided in section twelve of this Chapter, and carefully examine the same; shall see that they are correctly cast and approved, neatly folded, filed, labelled and recorded. In case of any error or informality, he shall make note of the fact, and return the bill or demand, with the objections, to the officer or board presenting the same; and when the Auditor has any doubt concerning the propriety or correctness of such bill, or account, if it be not satisfactorily explained, he shall refer the same at once to the Mayor for consideration and final decision. He shall keep a book in manner and form acceptable to the committee on accounts, wherein he shall record the date and amount of every account and claim against the city presented as aforesaid, and as finally corrected and allowed, and also the name of the person to whom the same shall be allowed, designating the fund or appropriation from which the same shall be paid. When the regular monthly bills due from the city for services rendered or supplies furnished shall have been recorded by the Auditor, and examined by the committee on accounts, the draft or order upon the Treasurer for the payment of the aggregate amount of the bills aforesaid, shall be signed by the Mayor, and countersigned by the Auditor, and placed in the hands of the City Treasurer, who shall proceed to pay the same by issuing a combination check and voucher in such form as may be approved by the committee on accounts, to each person, organization, corporation or association named in said draft or order.

The Auditor shall receive from the Treasurer and carefully hold all bonds, notes, scrip and other certificates of indebtedness, together with coupons issued by the City, and executions against the same after they have been paid, and shall keep a registry thereof. Immediately upon receiving any bond, note, scrip, coupon, execution or other certificate of indebtedness from the Treasurer, the Auditor shall deliver to him a draft or other order for the payment of the same.

Section 7. The Treasurer shall require complete identification of all persons seeking to receive settlement of bills and claims due from the City, and he shall give his check to no person other than the one named in the bill, or order transmitted to him, or his duly authorized agent or attorney. [*Approved April* 12, 1904.

An Ordinance in Amendment of an Ordinance Entitled "Cemetery."

Be it ordained by the City Council of the City of Cambridge as follows:—

Chapter 6 of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby amended by striking out Section 5 of said Ordinance and inserting in place thereof the following: —

SECTION 5. The Board of Cemetery Commissioners shall determine the amount necessary to preserve and care for any lot or grave in Cambridge Cemetery, and shall also, by itself or any Committee thereof, determine what lots or graves may be received under perpetual care. The income of any sums so determined shall be applied by said board for the preservation, care, improvement or embellishment of any such lot or grave. [*Approved June* 10, 1904.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED "DUTIES AND SALARIES" RELATIVE TO THE SALARY OF THE CITY MESSENGER.

Be it ordained by the City Council of the City of Cambridge, as follows: —

Section 30 of Chapter 28 of the Revised Ordinances of 1892, as amended to Nov. 8, 1899, is hereby amended in the line relating to the salary of the City Messenger, by striking out the figures 1,000.00 and inserting in place thereof the figures 1,200.00. [*Approved July* 8, 1904.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED "CONSTRUCTION, MAINTENANCE AND INSPECTION OF BUILDINGS."

Be it ordained by the City Council of the City of Cambridge as follows: —

Chapter 13, of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby amended as follows: —

In Section 26 by adding the following – "In every first and second class building in which two or more families reside on the same floor, there shall be a partition wall four inches less in thickness than is required for external party walls in brick buildings, unless the wall is used for a floor-bearing wall, in which case said wall shall be of the same thickness as is required for external walls of brick buildings, provided openings in such partition walls may be made for the purpose of stairways, and in the manner described above for a third class building. [*Approved July* 7, 1904.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED "CONSTRUCTION, MAINTENANCE AND INSPECTION OF BUILDINGS."

Be it ordained by the City Council of the City of Cambridge, as follows: —

Chapter 13, of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby amended as follows: —

In Section 138 by striking out the words "more than fifty feet in width" in the first and second lines, and the words "dormitories of the first and second class" in the second and third lines. In the fourth and fifth lines by striking out the words "running from front to rear and." In the last sentence by striking out the word "floor-bearing," before the word "walls" and inserting the word "brick or stone partition." Also

by striking out the words "fifty feet" at the end of the section and inserting the words "eight thousand square feet."

As amended this section will read as follows: —

Section 138. Every brick building hereafter erected, except schoolhouses, public buildings, hotels, railroad stations and stables shall have one or more brick or stone partition walls carried up to the full height of the building; said walls may be four inches less in thickness than is called for in the provision hereinbefore made relating to the thickness of external walls for a building, unless the wall is used for a floor-bearing wall, in which case said walls shall be of the same thickness as hereinbefore required for external walls of brick buildings. These walls shall be so located that the space between any two of the brick or stone partition walls of the building shall be not over eight thousand square feet, unless the basement and first story shall be constructed in a manner as provided in Section 131, except in buildings used for manufacturing purposes. [*Approved July* 7, 1904.

An Ordinance in Amendment of an Ordinance Entitled "Streets."

Be it ordained by the City Council of the City of Cambridge, as follows:—

Section 2 of Chapter 25 of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby amended as follows: By adding after the word "police" in the fourteenth line the words, "and he shall remove all snow from the sidewalks and walks around the several schoolhouses in this City."

As amended the section will read as follows: —

Section 2. The Superintendent of Streets shall, under the direction and control of the Mayor, have the general care and charge of the highways, streets, bridges and public squares belonging to the City, and shall attend to the making, mending and alteration thereof, and cause the same to be kept in good repair, so as to be safe and convenient for travellers, with their horses and carriages at all seasons of the year. He shall place suitable street signs on each street at convenient distances apart. He shall keep the entrances to catch-basins open and clear of ice in cold weather so as to permit the flow of surface water into them. He shall see that the highways and streets, and sidewalks are kept in good order, and that all nuisances and obstructions therein are forthwith removed, or give notice thereof to the mayor or chief of police, and he shall remove all snow from the sidewalks and walks around the several schoolhouses in this City. And in case of the blockade or obstruction of any street, the person causing such blockade or obstruction shall forthwith notify the Superintendent of Streets and the Chief of Police thereof. [*Approved November* 4, 1904.

AN ORDIANCE IN AMENDMENT OF AN ORDIANCE ENTITLED "GUNPOWDER AND EXPLOSIVE COMPOUNDS"

Be it ordained by the City Council of the City of Cambridge, as follows: —

Chapter 41 of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby amended in Sections 1, 2, 3, 5 and 6 as follows: —

In Section 1, by inserting after the word "gunpowder" in the first line the words, "dynamite, gun-cotton, fulminate or other explosive compounds;" after the word "casks" in the second line the word "boxes;" after the word "gunpowder" in the third line the words, "dynamite, gun-cotton, fulminate."

In Section 2, by inserting after the word "gunpowder" in the first line the words "dynamite, gun-cotton, fulminate or other explosive compounds."

In Section 3, by inserting after the word "gunpowder" in the first line the words "dynamite, gun-cotton, fulminate or other explosive compounds."

Section 5, by striking out the whole section and inserting in place thereof the following: — "No gunpowder, dynamite, gun-cotton, fulminate or other explosive compounds shall be conveyed through the streets of the City of Cambridge, before one o'clock A. M., or later than five o'clock P.M., and then only if the same be enclosed in tight casks, boxes or canisters which shall prevent the escape of any particle of their contents, and conveyed in a rubber-tired vehicle, first approved by the Chief Engineer of the Fire Department. Said vehicle to be closely and entirely covered with leather or painted canvas, on the front, back and sides of which shall be painted the word "Dangerous," in black letters at least ten inches in height, the bottom and sides of which vehicle shall be lined with leather, felt or some other soft substance, so as to prevent friction; nor shall any two or more vehicles containing gunpowder, dynamite, gun-cotton, fulminate or other explosive compounds be allowed within sixty rods of each other, nor remain in the City over night, nor stand more than ten minutes within two hundred yards of any dwelling house; nor be driven at a speed greater than a walk, nor unless said vehicle be attended by at least two men, one as driver and the other in direct charge or custody of said gunpowder, dynamite, gun-cotton, fulminate or other explosive compounds being so conveyed."

In Section 6, by inserting after the word "gunpowder" in the first line the words "dynamite, gun-cotton, fulminate or other explosive compounds."

As amended the chapter will read as follows: —

CHAPTER 41.

Section 1. No gunpowder, dynamite, gun-cotton, fulminate or other explosive compounds shall be kept within the City, unless it is well secured in tight casks, boxes or canisters, and no person shall store or keep for sale gunpowder, dynamite, gun-cotton, fulminate or other explosive compounds, in any building other than described in Section 7 of this ordinance.

Section 2. No gunpowder, dynamite, gun-cotton fulminate or other explosive compounds above the quantity of fifty pounds shall be kept or deposited in any shop, store or other building, or in a ship or vessel, which is within the distance of twenty-five rods from any building or from a wharf.

Section 3. No gunpowder, dynamite, gun-cotton, fulminate or other compounds above the quantity of twenty-five pounds shall be kept or deposited in any shop, store or other building within ten rods of any other building.

Section 4. No gunpowder above the quantity of one pound shall be kept or deposited in any shop, store or other building within ten rods of any other building, unless the same be well secured in copper, tin or brass canisters, holding not exceeding five pounds each, and closely covered with copper, tin or brass covers, according to the eighty-ninth section of the one hundred and second chapter of the Revised Laws.

Section 5. No gunpowder, dynamite, gun-cotton, fulminate or other explosive compounds shall be conveyed through the streets of the City of Cambridge before one o'clock A. M., or later than five o'clock P. M., and then only if the same be enclosed in tight casks, boxes or canisters which shall prevent the escape of any particle of their contents, and conveyed in a rubber-tired vehicle, first approved by the Chief Engineer of the Fire Department. Said vehicle to be closely and entirely covered with leather or painted canvass, on the front, back and sides of which shall be painted the word "Dangerous" in black letters at least ten inches in height, the bottom and sides of which vehicle shall be lined with leather, felt or some other soft substance, so as to prevent friction; nor shall any two or more vehicles containing gunpowder, dynamite, gun-cotton, fulminate or other explosive compounds be allowed within sixty rods of each other; nor remain in the City over night, nor stand more than ten minutes within two hundred yards of any dwelling house; nor be driven at a speed greater than a walk, nor unless said vehicle be attended by at least two men, one as driver and the other in direct charge or custody of said gunpowder, dynamite, gun-cotton, fulminate or other explosive compounds, being so conveyed.

SECTION 6. Every vehicle for the conveying of gunpowder, dynamite, gun-cotton, fulminate or other explosive compounds, in or through the City, shall be subject, at all times, to the inspection of the Mayor, any Alderman, police officer, or Engineer of the Fire Department.

SECTION 7. All persons who shall store or keep for sale gunpowder or any other explosive compounds above the quantity of one pound in any building shall, immediately on the receipt of such gunpowder or other explosive compounds, deliver to the Chief Engineer of the Fire Department a statement in writing of the amount of such gunpowder or other explosive compounds kept or proposed to be kept, together with an accurate description of the building and of the room or rooms of the building in which the same is kept, or is proposed to be kept. [*Approved November* 4, 1904.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED "CONSTRUCTION, MAINTENANCE AND INSPECTION OF BUILDINGS."

Be it ordained by the City Council of the City of Cambridge, as follows: —

Section 73 of Chapter 13 of the Revised Ordinances of 1892 as amended to November 8, 1899, is hereby amended by adding at the end of said section the following: —

"This section shall not be construed to apply to any structure or stand for the purpose of astronomical observations."

As amended this section will read as follows: —

SECTION 73. The roof of every second-class building hereafter built, within the fire limits, shall be covered with tin, iron, slate, gravel, composition or like substantial roofing material not readily inflamable.

No structure or stand for observation purposes shall be constructed upon the roof of any building within the City.

This section shall not be construed to apply to any structure or stand for the purpose of astronomical observations. [*Approved November* 30, 1904.

AN ORDINANCE ESTABLISHING THE SALARIES OF THE MEMBERS OF THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Cambridge, as follows: —

On and after the first day of December, 1904, the salaries of the members of the Fire Department shall be at the following rates per annum: —

Chief Engineer	$2,000 00
Assistant Chief Engineer	1,500 00

PERMANENT MEN.

Captains	$1,300 00
Lieutenants	1,250 00
Enginemen	1,200 00

ALL OTHER PERMANENT MEMBERS.

First 12 months of service	$820 00
Second 12 months of service	920 00
After two years of service	1,095 00

CALL MEN.

Captains	$270 00
Lieutenants	252 00
Members	240 00

All ordinances and parts of ordinances inconsistent herewith are hereby repealed. [*Approved December* 1, 1904.

MAYORS OF THE CITY OF CAMBRIDGE

(From 1846 to 1905 Inclusive.)

James D. Green	From	May,	1846,	to April,	1848
Sydney Willard	"	April,	1848,	to April,	1851
George Stevens	"	April,	1851,	to April,	1853
James D. Green	"	April,	1853,	to April,	1854
*Abraham Edwards	"	April,	1854,	to January,	1855
Zebina L. Raymond	"	January,	1855,	to January,	1856
John Sargent	"	January,	1856,	to January,	1860
†James D. Green	"	January,	1860,	to July 24,	1861
‡Charles Theo. Russell	"	July 31,	1861,	to January,	1863
George C. Richardson	"	January,	1863,	to January,	1864
Zebina L. Raymond	"	January,	1864,	to January,	1865
J. Warren Merrill	"	January,	1865,	to January,	1867
Ezra Parmenter	"	January,	1867,	to January,	1868
Charles H. Saunders	"	January,	1868,	to January,	1870
Hamlin R. Harding	"	January,	1870,	to January,	1872
Henry O. Houghton	"	January,	1872,	to January,	1873
Isaac Bradford	"	January,	1873,	to January,	1877
Frank A. Allen	"	January,	1877,	to January,	1878
Samuel L. Montague	"	January,	1878,	to January,	1880
James M. W. Hall	"	January,	1880,	to January,	1881
James A. Fox	"	January,	1881,	to January,	1885
William E. Russell	"	January,	1885,	to January,	1889
Henry H. Gilmore	"	January,	1889,	to January,	1891
Alpheus B. Alger	"	January,	1891,	to January,	1893
William A. Bancroft	"	January,	1893,	to January,	1897
Alvin F. Sortwell	"	January,	1897,	to January,	1899
Edgar R. Champlin	"	January,	1899,	to January,	1901
David T. Dickinson	"	January,	1901,	to January,	1902
John H. H. McNamee	"	January,	1902,	to January,	1904
Augustine J. Daly	"	January,	1904.	Now in office.	

*Municipal year changed. † Resigned. ‡First elected by the City Council.

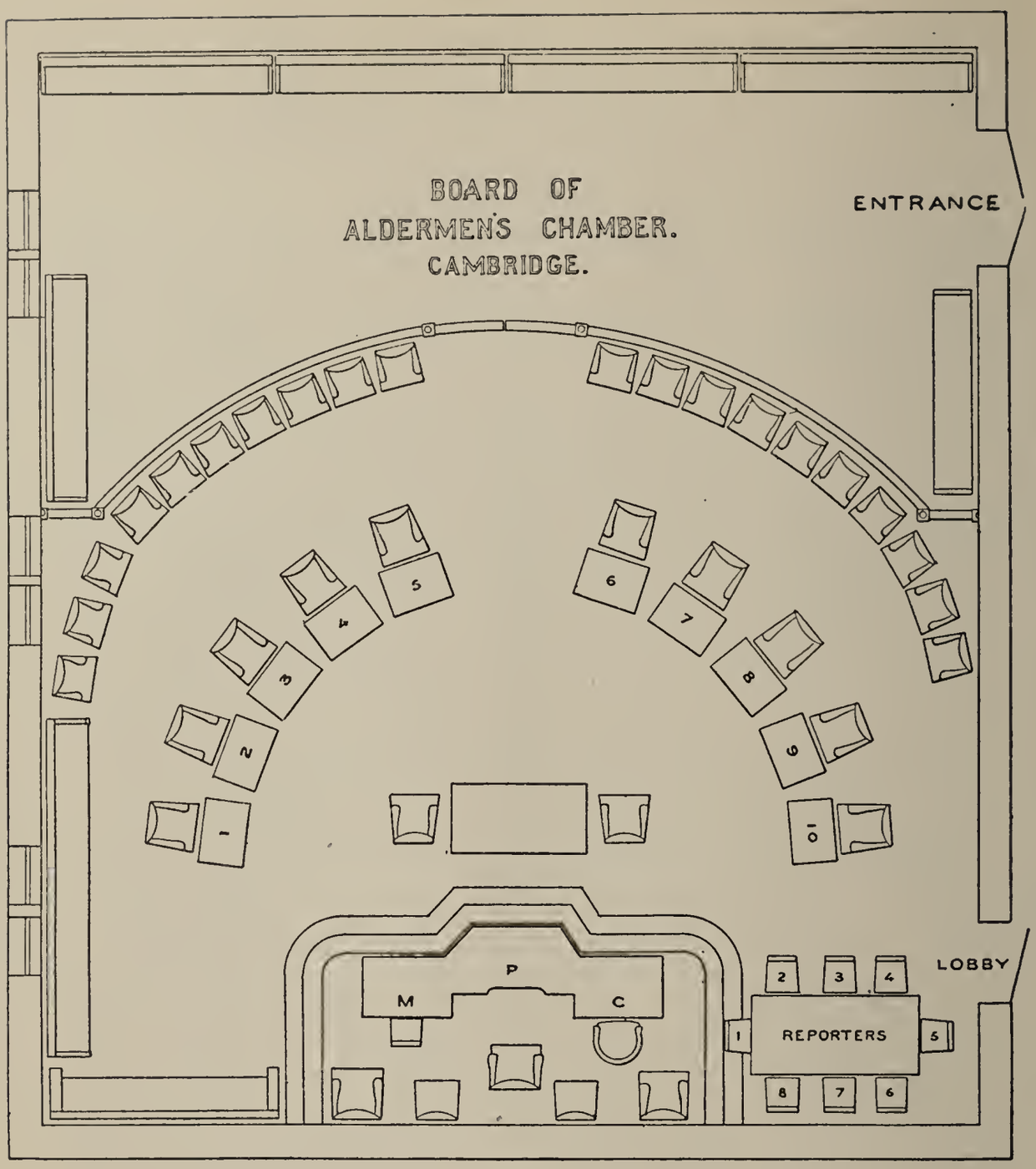
PRESIDENTS OF THE BOARD OF ALDERMEN

1888	Edward W. Hincks.
1889	John H. Corcoran.
1890	Alvin F. Sortwell.
1891	William A. Bancroft.
1892	William A. Bancroft.
1893	John R. Fairbairn.
1894	John G. Thorogood.
1895	John R. Fairbairn.
1896	John R. Fairbairn.
1897	Russell Bradford.
1898	Russell Bradford.
1899	Walter C. Wardwell.
1900	Walter C. Wardwell.
1901	George E. Saunders.
1902	James F. Aylward.
1903	*John W. Coveney.
	Timothy W. Good.
1904	John W. Coveney.
1905	J. Edward Barry.

*John W. Coveney resigned March 10, 1903, and Timothy W. Good elected to the vacancy.

PRESIDENTS OF THE COMMON COUNCIL

1846 Isaac Livermore.
1847 John Sargent.
1848 John C. Dodge.
1849 Samuel P. Heywood.
1850 Samuel P. Heywood.
1851 John S. Ladd.
1852 John Sargent.
1853 John Sargent.
1854 John C. Dodge.
1855 Alanson Bigelow.
1856 Ezra Ripley. Resigned January 31.
1856 George S. Saunders. Elected January 31.
1857 George S. Saunders.
1858 James C. Fisk.
1859 James C. Fisk.
1860 Hamlin R. Harding.
1861 Hamlin R. Harding.
1862 Jared Shepard. Resigned September 17.
1862 Knowlton S. Chaffee. Elected September 24.
1863 George S. Saunders.
1864 George S. Saunders.
1865 John S. March.
1866 John S. March.
1867 Marshall T. Bigelow.
1868 Knowlton S. Chaffee. Resigned February 4.
1868 Henry W. Muzzey. Elected February 4.
1869 Henry W. Muzzey.
1870 Joseph H. Converse.
1871 Joseph H. Converse.
1872 Alvaro Blodgett.
1873 Alvaro Blodgett. Resigned June 17.
1873 Francis H. Whitman. Elected June 17.
1874 George F. Piper.
1875 George F. Piper.
1876 Frank A. Allen.
1877 Perez G. Porter.
1878 George S. Saunders.
1879 George S. Saunders.
1880 Charles Walker.
1881 Charles Walker.
1882 George H. Howard.
1883 George H. Howard.
1884 George H. Howard.
1885 Cornelius G. H. Bennink.
1886 John H. Corcoran.
1887 John H. Corcoran.
1888 Alvin F. Sortwell.
1889 Edward A. Bingham.
1890 Edward A. Bingham.
1891 Edward C. Wheeler.
1892 Herbert A. Chase.
1893 J. Henry Russell.
1894 Charles M. Conant.
1895 John L. Odiorne.
1896 John L. Odiorne.
1897 Albert S. Apsey.
1898 George E. Saunders.
1899 William F. Brooks.
1900 John D. Merrill.
1901 John D. Merrill.
1902 Thorndike Spalding.
1903 Edward E. Clark.
1904 Harry N. Stearns.
1905 George A. Giles.



KEY TO BOARD OF ALDERMEN'S CHAMBER

CAMBRIDGE, 1905

P—J. Edward Barry, *President.*

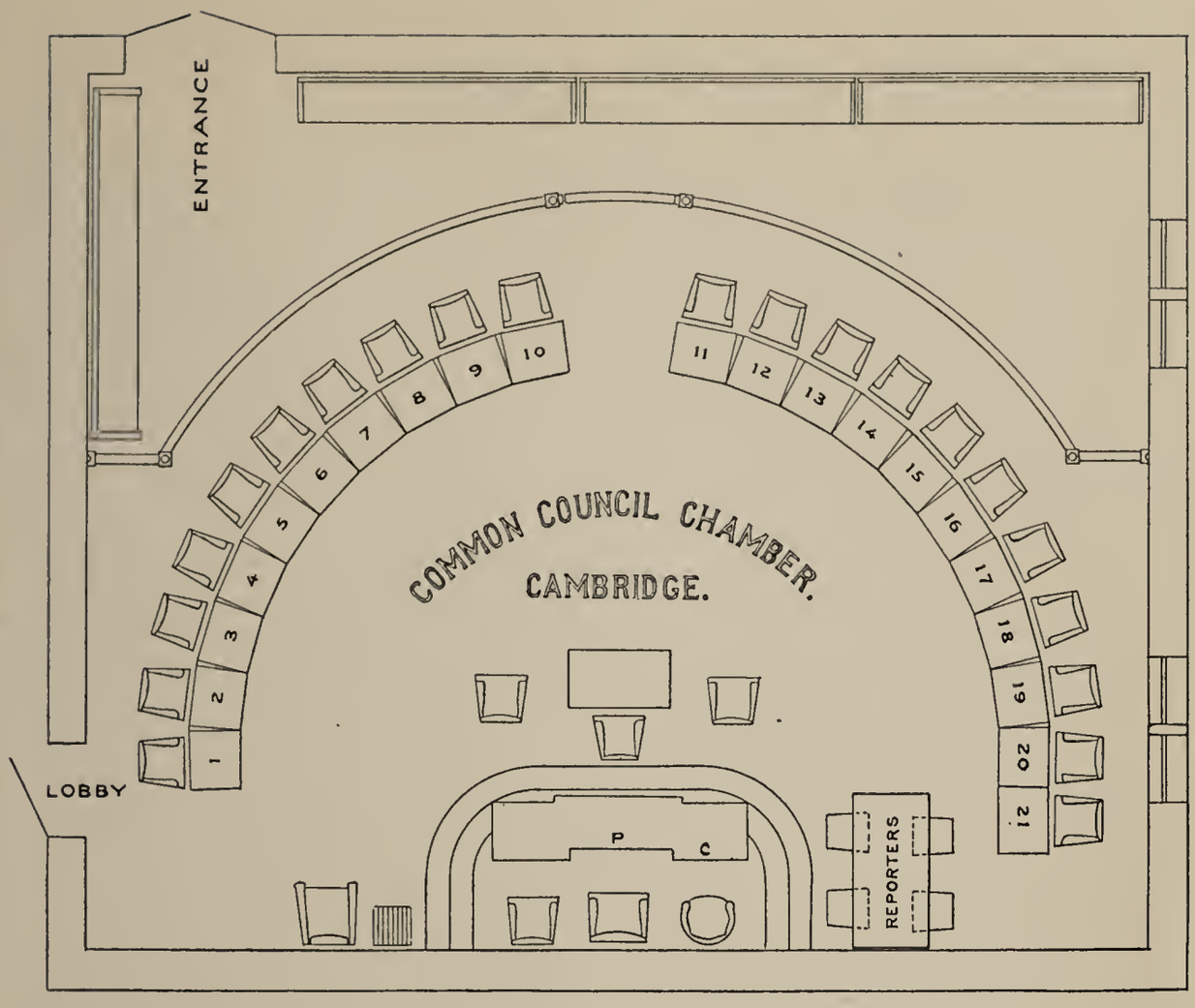
1	Alderman	Coveney.	6	Alderman	Lynch.
2	"	Allen.	7	"	Quinn.
3	"	Fahy.	8	"	James.
4	"	Andrew.	9	"	Hart.
5	"	Burke.	10	"	Flynn.

C—Edward J. Brandon, *City Clerk.*

M—Frank T. Evans, *City Messenger.*

Reporters

1 John B. Whoriskey, Boston Globe.
2 J. Lee Robinson, Cambridge Tribune.
3 James H. Cox, Cambridge Times.
4 James W. Bean, Boston Herald and Cambridge Chronicle.
5 Samuel Hayward, Jr., Boston Post.
6 Louis F. Conant, Boston Advertiser and Record
7 Wm. P. Nickerson, Cambridge Sentinel.
8 George A. Hill, Associated Press and Boston Journal.



KEY TO COMMON COUNCIL CHAMBER

CAMBRIDGE, 1905

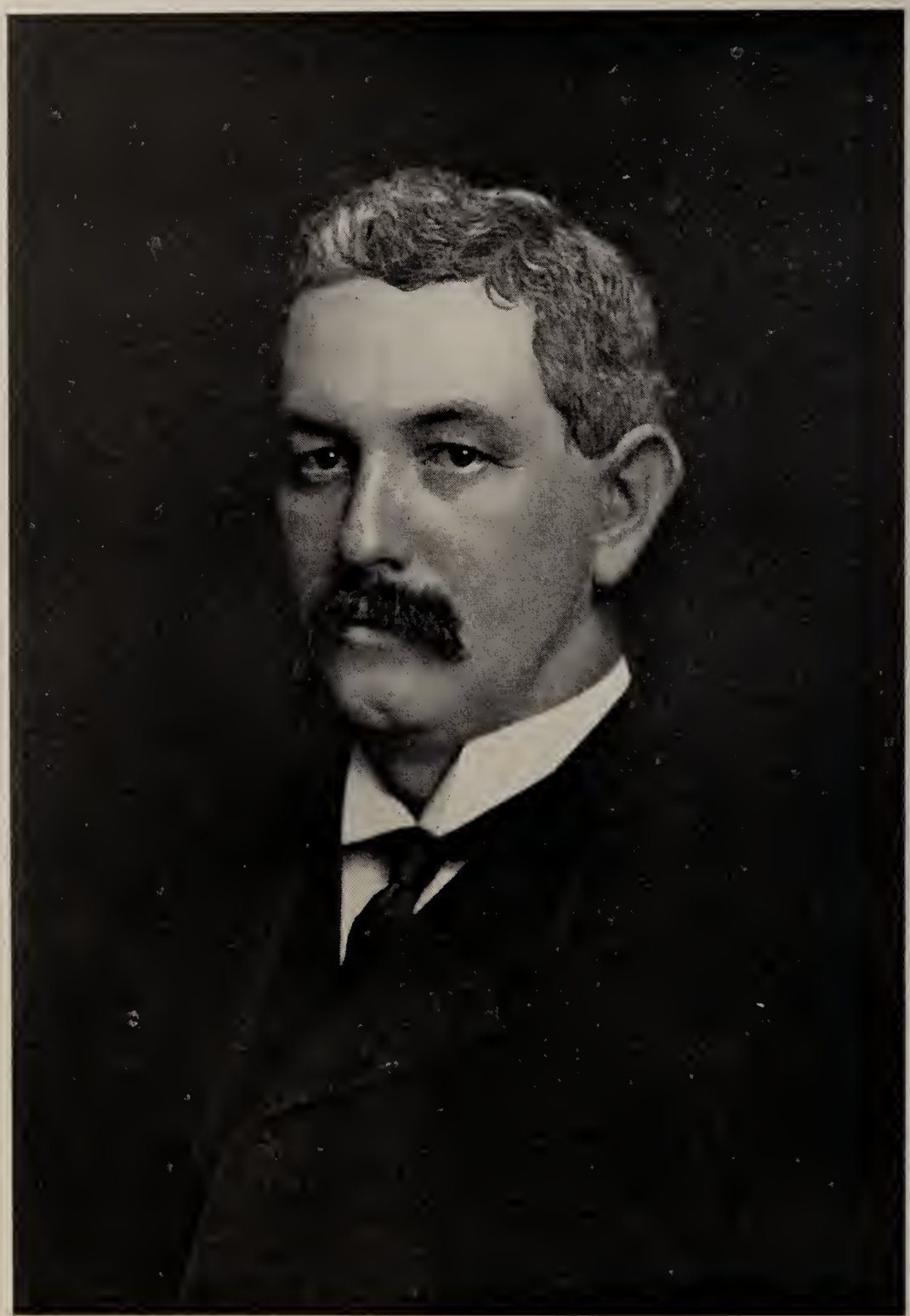
P—George A. Giles, *President.*

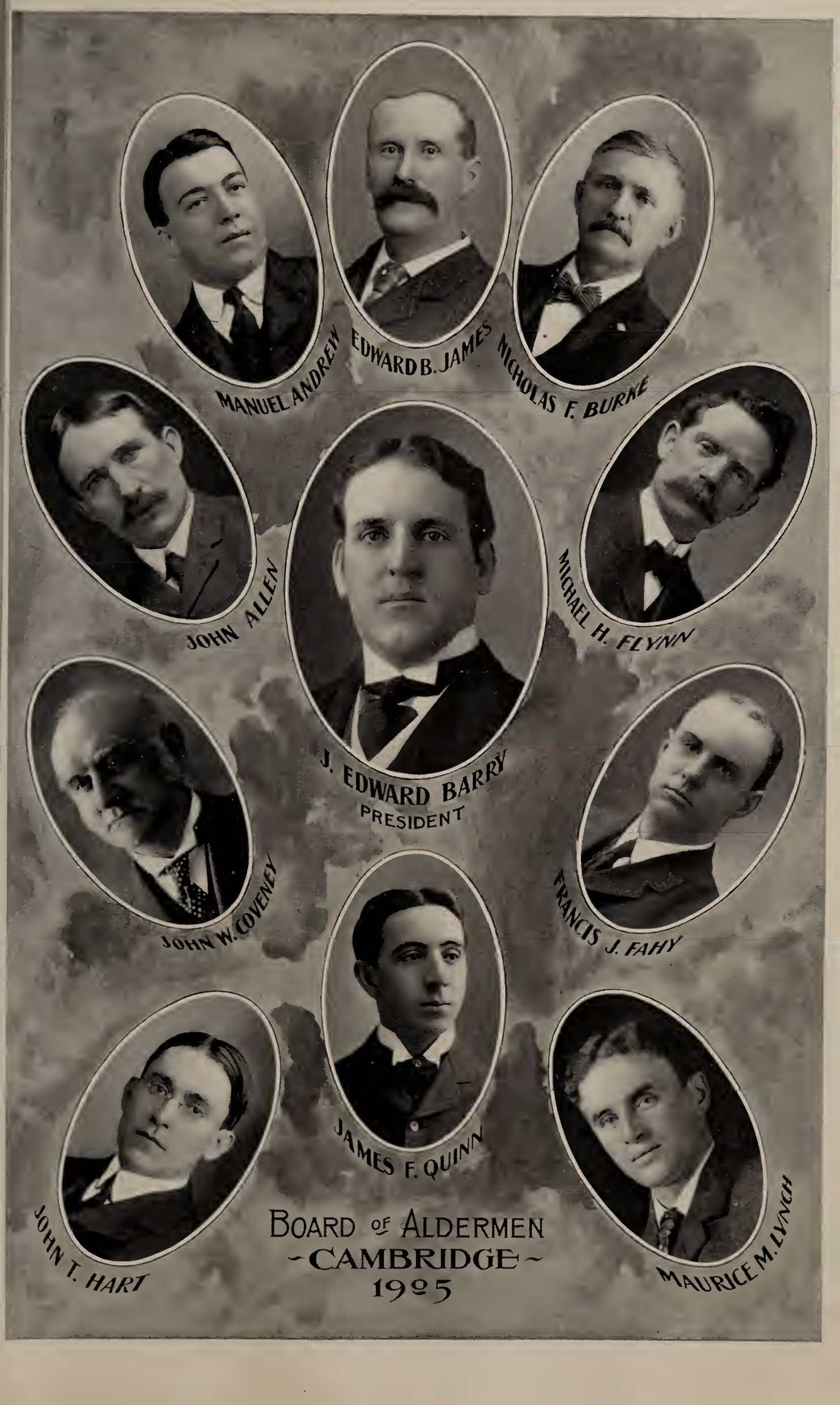
1	Councilman	Hogan.	11	Councilman	Wood.
2	"	Black.	12	"	Stephens.
3	"	O'Neil.	13	"	Harlow.
4	"	Crowley.	14	"	Bradford.
5	"	Meyers.	15	"	Stetson.
6	"	Crane.	16	"	Thayer.
7	"	Chase.	17	"	Cronin.
8	"	Dow.	18	"	Dinan.
9	"	Smithers.	19	"	Sullivan.
10	"	Nelligan.	20	"	Williams.
			21	Councilman	Penniman.

C— Edward A. Counihan, *Clerk.* William E. McAnaul, *Page.*

Reporters

Philip R. Ammidon, Cambridge Chronicle.
Albert Hardy, Cambridge Times.
J. L. Bruce, Cambridge Tribune.
Henry J. Mahoney, Cambridge Sentinel.



AUGUSTINE J. DALY
Mayor
Cambridge, Massachusetts
1905

MANUEL ANDREW
EDWARD B. JAMES
NICHOLAS F. BURKE
JOHN ALLEN
J. EDWARD BARRY
PRESIDENT
MICHAEL H. FLYNN
JOHN W. COVENEY
FRANCIS J. FAHY
JAMES F. QUINN
JOHN T. HART
MAURICE M. LYNCH
BOARD OF ALDERMEN
-CAMBRIDGE-
1905

GOVERNMENT OF THE CITY OF CAMBRIDGE, 1905

Mayor

AUGUSTINE J. DALY, 51 Martin Street.

Board of Aldermen

President.

J. Edward Barry.

John Allen	42 Second Street	Ward 1
Manuel Andrew	46 Third Street	" 1
J. Edward Barry	347 Broadway	" 5
Nicholas F. Burke	55 Upland Road	" 10
John W. Coveney	140 Otis Street	" 2
Francis J. Fahy	204 Third Street	" 1
Michael H. Flynn	162 Columbia Street	" 4
John T. Hart	143 Thorndike Street	" 2
Edward B. James	1640 Cambridge Street	" 8
Maurice M. Lynch	19 Frank Street	" 11
James F. Quinn	120 Willow Street	" 3

Clerk.

Edward J. Brandon.

Messenger.

Frank T. Evans.

Regular Meetings on Tuesday Evenings at 8 o'clock.

Common Council

President.

George A. Giles.

James F. Black	145 Willow Street	Ward 3
Isaac Bradford	46 Sacramento Street	" 8
Herbert M. Chase	37 Lee Street	" 5
Russell D. Crane	162 Lake View Avenue	" 9
Daniel Cronin	133 Webster Avenue	" 3
James P. Crowley	67 Moore Street	" 4
Daniel J. Dinan	6 Winter Street	" 1
George L. Dow	23 Magazine Street	" 7
George A. Giles	8 Perry Street	" 6
Lester B. Harlow	153 Prospect Street	" 5
William M. Hogan	146A Spring Street	" 2
Julius Meyers	417 Green Street	" 7
David J. Nelligan	24 Rice Street	" 11
Thomas P. O'Neil	52 Montgomery Street	" 11
Harry A. Penniman	356 Pearl Street	" 6
John B. Smithers	90 Norfolk Street	" 4
George Stephens	53 Ellery Street	" 8
Henry C. Stetson	128 Brattle Street	" 9
Joseph A. Sullivan	155 Bridge Street	" 1
Farwell E. Thayer	44 Garfield Street	" 10
Charles J. Williams	306 Vine Street	" 2
Russell A. Wood	1691 Massachusetts Ave.	" 10

Clerk.

Edward A. Counihan.

Page.

William E. McAnaul.

Regular Meetings on Tuesday Evenings at 8 o'clock.

JAMES F. BLACK
ISAAC BRADFORD
HERBERT M. CHASE
RUSSELL D. CRANE
GEORGE A. GILES
PRESIDENT
DANIEL CRONIN
JAMES P. CROWLEY
DANIEL J. DINAN
GEORGE L. DOW
1905
LESTER B. HARLOW
COMMON COUNCIL — CAMBRIDGE

WILLIAM M. HOGAN
JULIUS MEYERS
DAVID J. NELLIGAN
THOMAS P. O'NEIL
HARRY A. PENNIMAN
JOHN B. SMITHERS
GEORGE STEPHENS
HENRY C. STETSON
JOSEPH A. SULLIVAN
FARWELL E. THAYER
CHARLES J. WILLIAMS
RUSSELL A. WOOD
1905
COMMON COUNCIL CAMBRIDGE

COMMITTEES OF THE CITY COUNCIL

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

Accounts. Aldermen James and Fahy ; Councilmen Bradford, Meyers and Crowley.

Assessors' Department. Aldermen Allen and Burke; Councilmen Sullivan and Williams.

City Engineering. Aldermen Quinn and Lynch ; Councilmen Hogan, Penniman and Stephens.

City Home. Aldermen Burke and Allen; Councilmen Dow, Stephens and Cronin.

Claims. President Barry, Aldermen Flynn, Burke and Lynch ; President Giles, Councilmen Smithers, Crane, Dinan, Dow and Chase.

Finance. President Barry, Aldermen Hart, James and Quinn ; President Giles, Councilmen Wood, Thayer, O'Neil, Stetson and Stephens.

Health. Aldermen Burke and Allen; Councilmen Smithers, Chase and Bradford.

Highways. Aldermen James, Hart and Andrew; Councilmen Stephens, O'Neil, Harlow and Smithers.

Legislative Matters. President Barry, Aldermen James, Lynch and Burke; President Giles, Councilmen Stetson, Wood, Thayer, Nelligan and Hogan.

Ordinances. Aldermen Lynch and James; Councilmen Stetson, Meyers and Cronin.

Parks. Aldermen Flynn and Andrew; Councilmen Penniman, Dow and Cronin.

Printing. Aldermen Fahy and Burke; Councilmen Crowley, Harlow and Black.

Fire Department. Aldermen Coveney and Burke; Councilmen Thayer, Dinan and Penniman.

Public Property. Aldermen Flynn and Fahy; Councilmen Harlow, Penniman and Bradford.

Public Instruction. Aldermen Hart and James ; Councilmen Cronin, Wood and Williams.

Rules and Orders. Aldermen Quinn and Burke; Councilmen Nelligan, Harlow and Sullivan.

Water Supply. Aldermen James and Hart; Councilmen Crane, Thayer and Dow.

Wires and Lamps. Aldermen Andrew and Allen; Councilmen Dinan, Smithers, and Nelligan.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

Bonds. Aldermen James, Burke and Quinn.

Claims. President Barry, Aldermen Flynn, Burke and Lynch.

Elections and Returns. Aldermen Quinn and Lynch.

Fire Department. Aldermen Coveney, Burke and James.

Health. Aldermen Burke, Allen and Quinn.

Highways. Aldermen James, Hart and Andrew.

Licenses. Aldermen Flynn, Andrew and Fahy.

Parks. Aldermen Flynn and Andrew.

Police. Aldermen Flynn, Fahy and Lynch.

Sewers. Aldermen Quinn, James and Fahy.

Soldiers' Aid. President Barry, Aldermen James, Andrew, Lynch and Hart.

Street Railways. Aldermen Quinn and Flynn.

JOINT SPECIAL COMMITTEES.

Matters Referred from last City Council. Aldermen Flynn, James and Burke; Councilmen O'Neil, Meyers, Crane, Nelligan and Black.

Mayor's Inaugural Address. Aldermen James and Coveney; Councilmen Chase, Thayer and Crowley.

New Cambridge Bridge. Aldermen Andrew and Burke; Councilmen Meyers, Stetson and Hogan.

Amendments to City Charter. President Barry, Aldermen James and Hart; President Giles, Councilmen Chase, Stetson, Wood, Bradford and Hogan.

Rapid Transit. President Barry, Aldermen Hart and Lynch; President Giles, Councilmen Crane, Stephens and Dinan.

Proposed Redivision of Wards. Aldermen Quinn, Fahy, Burke; Councilmen Crane, Meyers, Stephens, Nelligan and Smithers.

SPECIAL COMMITTEES OF BOARD OF ALDERMEN.

Matters Referred from Last Board of Aldermen. Aldermen Burke, Andrew and Quinn.

Census Enumeration. Aldermen Flynn, Andrew and Coveney.

Jury List. Aldermen Burke, Allen and James.

STANDING COMMITTEES OF THE COMMON COUNCIL.

Bills in the Second Reading. Councilmen Williams, Black and Penniman.

Elections and Returns. Councilmen Smithers, Sullivan and Williams.

Enrolled Ordinances. Councilmen Black, Sullivan and Crowley.

ERRATA

PAGE 726.

Add to Standing Committees of the Board of Aldermen the following item :—

Cemeteries. President Barry and Aldermen James and Burke.

PAGE 727.

Add to Committee Appointments of President Barry and Aldermen James and Burke, the Committee on "Cemeteries."

COMMITTEE APPOINTMENTS OF MEMBERS OF THE CITY COUNCIL.

President Barry. Claims, Finance, Legislative Matters, Soldiers' Aid, Amendments to City Charter, Rapid Transit.

Alderman Allen. Assessors' Department, City Home, Health, Wires and Lamps, Jury List.

Alderman Andrew. Highways, Parks, Wires and Lamps, Licenses, Soldiers' Aid, New Cambridge Bridge, Matters Referred from the last Board of Albermen, Census Enumeration.

Alderman Burke. Assessors' Department, City Home, Claims, Health, Legislative Matters, Printing, Fire Department, Rules and Orders, Bonds, Jury List, Matters Referred from the last City Council, New Cambridge Bridge, Matters Referred from last Board of Aldermen, Proposed Redivision of Wards.

Alderman Coveney. Fire Department, Mayor's Inaugural Address, Census Enumeration.

Alderman Fahy. Accounts, Printing, Public Property, Licenses, Police, Sewers, Proposed Redivision of Wards.

Alderman Flynn. Claims, Parks, Public Property, Licenses, Police, Street Railways, Matters Referred from the last City Council, Census Enumeration.

Alderman Hart. Finance, Highways, Public Instruction, Water Supply, Soldiers' Aid, Amendments to City Charter, Rapid Transit.

Alderman James. Accounts, Finance, Highways, Legislative Matters, Ordinances, Public Instruction, Water Supply, Bonds, Fire Department (Standing), Sewers, Soldiers' Aid, Jury List, Matters Referred from last City Council, Mayor's Inaugural Address, Amendments to City Charter.

Alderman Lynch. City Engineering, Claims, Legislative Matters, Ordinances, Elections and Returns, Police, Soldiers' Aid, Rapid Transit.

Alderman Quinn. City Engineering, Finance, Rules and Orders, Bonds, Elections and Returns, Health (Standing), Sewers, Street Rail ways, Matters Referred from last Board of Aldermen, Proposed Redivision of Wards.

President Giles. Claims, Finance, Legislative Matters, Amendments to City Charter, Rapid Transit.

Councilman Black. Printing, Matters Referred from last City Council, Bills in the Second Reading, Enrolled Ordinances.

Councilman Bradford. Accounts, Health, Public Property, Amendments to City Charter.

Councilman Chase. Claims, Health, Mayor's Inaugural Address, Amendments to City Charter.

Councilman Crane. Claims, Water Supply, Matters Referred from last City Council, Rapid Transit, Proposed Redivision of Wards.

Councilman Cronin. City Home, Ordinances, Parks, Public Instruction.

Councilman Crowley. Accounts, Printing, Mayor's Inaugural Address, Enrolled Ordinances.

Councilman Dinan. Claims, Fire Department, Wires and Lamps, Rapid Transit.

Councilman Dow. City Home, Claims, Parks, Water Supply.

Councilman Harlow. Highways, Printing, Public Property, Rules and Orders.

Councilman Hogan. City Engineering, Legislative Matters, New Cambridge Bridge, Amendments to City Charter.

Councilman Meyers. Accounts, Ordinances, Matters Referred from last City Council, New Cambridge Bridge, Proposed Redivision of Wards.

Councilman Nelligan. Legislative Matters, Rules and Orders, Wires and Lamps, Matters Referred from last City Council, Proposed Redivision of Wards.

Councilman O'Neil. Finance, Highways, Matters Referred from last City Council.

Councilman Penniman. City Engineering, Parks, Fire Department, Public Property, Bills in the Second Reading.

Councilman Smithers. Claims, Health, Highways, Wires and Lamps, Elections and Returns, Proposed Redivision of Wards.

Councilman Stephens. City Engineering, City Home, Finance, Highways, Rapid Transit, Proposed Redivision of Wards.

Councilman Stetson. Finance, Legislative Matters, Ordinances, New Cambridge Bridge, Amendments to City Charter.

Councilman Sullivan. Assessors' Department, Rules and Orders, Elections and Returns, Enrolled Ordinances.

Councilman Thayer. Finance, Legislative Matters, Fire Department, Water Supply, Mayor's Inaugural Address.

Councilman Williams. Assessors' Department, Public Instruction, Bills in the Second Reading, Elections and Returns.

Councilman Wood. Finance, Legislative Matters, Public Instruction, Amendments to City Charter.

DEPARTMENTS AND BOARDS

EXECUTIVE DEPARTMENT.

AUGUSTINE J. DALY . . . . *Mayor.*
Edward A. Counihan . . . *Mayor's Clerk.*
Office Hours: 8 A.M. to 4 P.M.
Office, Rooms 17 and 18, City Hall. Telephone 463.

CITY CLERK DEPARTMENT.

EDWARD J. BRANDON . . . . *City Clerk.*
Albert M. Pear . . . . *Assistant City Clerk.*
Office Hours: 8 A.M. to 4 P.M.
Office, Rooms 8 and 9, City Hall. Telephone 419.

TREASURY DEPARTMENT.

WILLIAM W. DALLINGER, *City Treasurer and Collector of Taxes.*
Office Hours: 8 A.M. to 2 P.M.
Office, Rooms 3 and 4, City Hall. Telephone 602.

AUDITING DEPARTMENT.

HARRY T. UPHAM . . . . . *City Auditor.*
Office Hours: 8 A.M to 4 P.M.
Office, Rooms 1 and 2, City Hall. Telephone 1001.

CLERK OF COMMITTEES DEPARTMENT.

JOHN McDUFFIE . . . . . *Clerk of Committees.*
Eben W. Pike . . . . *Assistant.*
Office Hours: 8 A.M. to 4 P.M.
Office, Room 16, City Hall. Telephone 818.

CITY MESSENGER DEPARTMENT.

FRANK T. EVANS . . . . . *City Messenger.*
William E. McAnaul . . . *Assistant.*
Office Hours: 8 A.M. to 5 P.M.
Office, Room 11, City Hall. Telephone 650.

LAW DEPARTMENT.

GILBERT A. A. PEVEY . . . . . *City Solicitor.*

Office Hours (at City Hall): Saturdays, 8 A.M. to 12 M.

Office, Room 17, City Hall. Telephone 463.

Boston Office, 22 Pemberton Square. Telephone 1071 Haymarket.

ENGINEERING DEPARTMENT.

LEWIS M. HASTINGS . . . . . *City Engineer.*

Theodore L. Pike . . . . . *Supt. of Sewers.*

Office Hours: 8 A.M. to 5 P.M.

Office, Rooms 30 and 31, City Hall. Telephone 471.

FIRE DEPARTMENT.

NATHANIEL W. BUNKER . . . . *Chief.*

James M. Casey . . . . . *Assistant Chief.*

Office Hour: 9 to 10 A.M.

Office, Room 23, City Hall. Telephone 650.

INSPECTION, ETC., OF BUILDINGS DEPARTMENT.

THOMAS F. TRACY, *Supt. of Public Buildings and Inspector of Buildings*

Office Hours: 8 A.M. to 4 P.M.

Office, Room 28, City Hall. Telephone 125.

HEALTH DEPARTMENT — BOARD OF HEALTH.

CHARLES T. WEEKS, M. D. . . . . *Chairman.*

Term, three years.

Ernest W. Clark . . . . . Term expires 1905.

John J. Scott . . . . . Term expires 1906.

Charles T. Weeks, M. D. . . . Term expires 1907.

James B. Soper . . . . . *Clerk.*

Edwin Farnham, M. D. . . . . *Medical Inspector.*

Office Hours: 8 A.M. to 4 P.M.

Rooms 25 and 26, City Hall. Telephone 345.

POLICE DEPARTMENT.

FRED B. PULLEN . . . . . *Chief of Police.*

Office Hours: 8 A.M. to 6 P.M.

Office at Central Square Building. Telephone 423.

STREET DEPARTMENT.

GEORGE M. CLUKAS . . . . . *Supt. of Streets.*
Henry P. Fielding . . . . *Clerk.*

Office Hours: 8 A.M. to 4 P.M.
Office, Room 12, City Hall. Telephone 435.

INSPECTOR OF MILK AND VINEGAR.

PHILIP P. SHARPLES . . . . *Inspector of Milk and Vinegar.*

Office Hours: 8 to 11 A.M.
Office, Room 27, City Hall. Telephone 345.

ASSESSORS' DEPARTMENT — BOARD OF ASSESSORS.

Term, three years.

WILLIAM F. BROOKS, *Chairman* . .	Term expires 1905.
JEREMIAH F. DONOVAN	Term expires 1906.
DANIEL B. SHAUGNESSY, *Secretary* .	Term expires 1907.

ASSISTANT ASSESSORS.

Felix C. McBride	Ward 1
Charles E. McCarthy	Ward 2
Thomas Gallagher	Ward 3
Patrick J. White	Ward 4
George H. Munroe	Ward 5
James R. Boyd	Ward 6
Franklin H. Wright	Ward 7
Warren Ivers	Ward 8
James J. Culhane	Ward 9
*Edward T. Flanagan	Ward 10
Charles W. Callahan	Ward 11

Office Hours: 8 A.M. to 4 P.M.
Office, Rooms 21 and 22, City Hall. Telephone 244.

CITY ELECTRICAL DEPARTMENT.

TIMOTHY C. O'HEARN . . . . . *City Electrician.*

Office Hours: 8 A.M. to 2 P.M.
Office, Room 28, City Hall. Telephone 125.
Central Fire Alarm Office. Telephone 363.

---

*Resigned.

INSPECTION OF ANIMALS DEPARTMENT.

CHARLES E. HADCOCK, M.D.V. . . *Inspector of Animals.*
Residence, 25 Dana Street. Telephone 662–3.
(No office or Hours.)

BRIDGE DEPARTMENT.

GEORGE M. CLUKAS, *Bridge Commissioner and Harbor Master.*
Office Hours: 8 A.M. to 4 P.M.
Office, Room 12, City Hall. Telephone 435.

SEALER OF WEIGHTS AND MEASURES DEPARTMENT.

GEORGE H. DINAN . . . . . *Sealer.*
John C. Connors . . . . . *Deputy Sealer.*
Office Hours: { Fridays, 8 A.M. to 4 P.M.
Saturdays, 8 A.M. to 12 M.
Office, Brattle Square Building. Telephone 35.

CITY PHYSICIAN.

WILLIAM G. BROUSSEAU.
Residence, 2222 Massachusetts Avenue. Telephone 1285.
Office, Central Square Building.
Office Hours, daily, 10 A.M. to 11 A.M. Telephone 660.

FENCE VIEWERS.

Lewis M. Hastings . . . . . City Hall.
Thomas F. Tracy . . . . . City Hall.
Telephone 471, 125.

SCHOOL COMMITTEE.

AUGUSTINE J. DALY, Mayor . . . *Chairman, ex-officio.*

Term ending in 1905.

Warren P. Adams . . . . . Ward 8
John E. Somers . . . . . Ward 11
Mary E. Mitchell . . . . . Ward 6
Joseph E. Sharkey . . . . . Ward 3
Edwin L. Cheney . . . . . Ward 4

Term ending in 1906.

Carolyn P. Chase	Ward 10
Edward J. Kronan	Ward 2
William Taggard Piper	Ward 9
J. Henry Russell	Ward 5
James A. Lew	Ward 7

Term ending in 1907.

George W. Bicknell	Ward 5
Sherman R. Lancaster	Ward 7
Frank E. Sands	Ward 10
Charles H. Thurston	Ward 8
Robert Walker	Ward 1

Secretary and School Supply Agent.

SANFORD B. HUBBARD.

Superintendent of Schools.

FRANCIS COGSWELL.

Office Hours: 8.30 A.M. to 5 P.M.

Office, Rooms 13, 14 and 15, City Hall. Telephone 445.

CEMETERY DEPARTMENT — CEMETERY COMMISSIONERS.

JOHN LYNCH	*Chairman.*

Term, three years.

Herbert A. Chase	Term expires 1905.
Samuel Usher	Term expires 1905.
John S. Clary	Term expires 1906.
John Lynch	Term expires 1906.
*Nathan C. Lombard William A. Bertsch	Term expires 1907.
Gustave Wilson	Term expires 1907.

Edward J. Brandon	*Clerk of the Board.*

Office, Rooms 8 and 9, City Hall. Telephone 419.

George D. Ford	*Supt. of Cemetery.*
John J. McKenzie	*Clerk of the Cemetery*

Office Hours: at Cemetery, 8 A.M. to 5 P.M.

Office at Cemetery on Coolidge Avenue. Telephone 289-3.

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*Deceased.

PERSON TO CAUSE TO BE PROPERLY INTERRED THE BODIES OF SOLDIERS AND SAILORS.

Eben W. Pike.

PUBLIC LIBRARY DEPARTMENT — TRUSTEES OF CAMBRIDGE PUBLIC LIBRARY.

Eugene A. McCarthy . . . . . *President.*

For one year.

William Taggard Piper of School Committee.

Citizens at large. Term, three years.

John Buckley	Term expires 1906.
J. Henry Duckrey	Term expires 1906.
George F. McKelleget	Term expires 1907.
Edward C. Wheeler	Term expires 1907.
Albert M. Barnes	Term expires 1908.
Eugene A. McCarthy	Term expires 1908.

Edward C. Wheeler	*Secretary.*
William Taggard Piper	*Treasurer.*
Clarence W. Ayer	*Librarian.*

Library Open: 10 A.M. to 8 P.M.

Reading Room: 10 A.M. to 10 P.M.

Sunday, 2 to 10 P.M.

Office at Library Building, Broadway, Irving and Trowbridge Streets. Telephone 610.

WATER WORKS DEPARTMENT — CAMBRIDGE WATER BOARD.

William B. Durant . . . . . *President.*

Term, five years.

George H. Howard	Term expires 1905.
William B. Durant	Term expires 1906.
Andrew J. Rady	Term expires 1907.
John F. O'Brien	Term expires 1908.
Edmund H. Stevens	Term expires 1909.

Walter H. Harding	*Clerk of the Board.*
Edwin C. Brooks	*Supt. of Water Works.*
Walter H. Harding	*Water Registrar.*

Office Hours: 8 A.M. to 4 P.M.

Office, Rooms 5 and 6, City Hall. Telephone 430.

REGISTRARS OF VOTERS.

J. Frank Facey . . . . . *Chairman.*

Term, four years.

Isaac S. Pear . . . . . Term expires 1905.
J. Frank Facey . . . . . Term expires 1906.
Peter P. Bleiler . . . . . Term expires 1907.
John P. McCormick . . . . Term expires 1908.

Isaac S. Pear . . . . . *Clerk.*
Office at Central Square Building. Telephone 1027-3.

PARK DEPARTMENT — PARK COMMISSIONERS.

Andrew J. Conlin . . . . . *President.*

Term, three years.

Andrew J. Conlin . . . . . Term expires 1905.
John E. Dwyer . . . . . Term expires 1906.
George Howland Cox . . . . Term expires 1907.

Grace E. Hixon . . . . . *Clerk of the Board.*
James A. Montgomery . . . . *Gen'l Superintendent.*
Office Hours: 8 A.M. to 4 P.M.
Office, Room 10, City Hall. Telephone 650.

SINKING FUND DEPARTMENT — COMMISSIONERS OF THE SINKING FUNDS.

Frank A. Allen . . . . . *Chairman.*

Term, three years.

John C. Bullard . . . . . Term expires 1905.
George H. Howard . . . . . Term expires 1905.
Austin Ford . . . . . Term expires 1906.
George G. Wright . . . . . Term expires 1906.
Frank A. Allen . . . . . Term expires 1907.
Thomas F. Royle . . . . . Term expires 1907.

John McDuffie . . . . . *Secretary.*
William W. Dallinger . . . . *Treasurer.*

OVERSEERS OF THE POOR DEPARTMENT — OVERSEERS OF THE POOR.

PATRICK CROWLEY . . . . . *Chairman.*

Term, five years.

Henry H. Winslow . . . . . Term expires 1906.
Patrick J. Callahan . . . . . Term expires 1907.
James F. Mullen . . . . . Term expires 1908.
Patrick Crowley . . . . . Term expires 1909.
John R. McCool . . . . . Term expires 1910.

David P. Muzzey . . . . . *Secretary.*
Charles E. Goodrow . . . . . *Supt. of City Home.*

Office Hours (at Central Square Building): 8 A.M. to 4 P.M.

Telephones { Office, 660. / City Home, 189.

BOARD OF SURVEY.

WILLIAM E. DOYLE . . . . . *Chairman.*

Term, three years.

John T. Scully . . . . . Term expires 1906.
James A. Wood . . . . . Term expires 1907
William E. Doyle . . . . . Term expires 1908.

John McDuffie . . . . . *Secretary.*

AGENT FOR COMMITTEE ON SOLDIERS' AID.

EBEN W. PIKE.

Office Hours: 8 A.M. to 4 P.M.
Office, Room 16, City Hall. Telephone 818.

TRUSTEES OF THE DOWSE INSTITUTE.

FRANK A. ALLEN . . . . . *President.*

Augustine J. Daly . . . . . *Mayor, ex-officio.*
George A. Giles, *President of Common Council, ex-officio.*
George Howland Cox . . . . . Willard A. Bullard.
Frank A. Allen.

George Howland Cox . . . *Secretary.*

TRUSTEES OF THE { SANDERS TEMPERANCE FUND. / BRIDGE CHARITABLE FUND.

Augustine J. Daly, Mayor, J. Edward Barry, President of Board of Aldermen, George A. Giles, President of Common Council.

Ex-Officiis.

PERSON TO RECEIVE INFORMATION OF DAMAGES BY DOGS.

(R. L., C. 102, § 155. C. 226, Acts 1902.)

Frederick B. Pullen.

TRUANT OFFICERS.

Lucian S. Cabot.
John Carmichael.
William H. Porter.
Thomas F. Riley.

CONSTABLES.

(Without power to serve civil process.)

Fred Bailey.
Joseph F. Boyle.
Lucian S. Cabot.
John C. Connors.
John Carmichael.
John J. Creedon.
George H. Dinan.
John J. Foley.
Charles E. Goodrow.
Frank A. Hagar.
James Hicks.
Thomas A. Hughes.
Joseph James.
John A. Jackson.
Charles A. Lincoln.
Peter Malone.
John McDonald.
Francis A. McLaughlin.
Thomas H. McManus.
Daniel J. Mills.
David J. Nelligan.
William H. Porter.
Thomas F. Riley.
John J. Roach.
John Ryan.
Leander Sampson.
John Taylor.
Frank H. Wait.
Joseph B. Whoriskey.

CONSTABLES.

(With power to serve civil process.)

Edward W. Abbott.
Edward Brady.
James A. Brown.
Timothy J. Curtin.
John Foster.
Joseph Fox.
Joseph N. Gilman.
Edward Grant.

Warren Ivers.
James E. Lennon.
John T. Lynch.
Charles F. Manning.
Thomas J. McGowan.
John J. O'Brien.
Frank E. Shaw.
Arthur M. Stewart.

UNDERTAKERS.

Forest M. Blake.
Joseph P. Calnan.
David F. Corcoran.
Jeremiah Corkery.
John W. Coveney.
Edward O. Cox.
Ellen M. Danehy.
Edwin L. Derby.
John J. Dunn.
George E. Everett.
David Fudge.
Edward J. Fudge.
George M. Joll.
George H. Kelley.
Horace D. Litchfield.
Judson Litchfield.
C. Henry Lockhart
Abiel E. Long.
George W. Long.
James McGowan.
James F. Mullen.
John J. Murphy.
William N. Neally.
David J. Nelligan.
T. Louis O'Brien.
John O'Connell.
Carl T. Olsen.
Jos. H. Ricker.
John J. Ross.
Daniel P. Shea.
James J. Shea.
Michael J. Shea.
Ralph Smith.
William Stinson.
William A. Taylor.
Charles W. Tukey, 3rd
Benjamin F. Wyeth.

AUCTIONEERS

John J. Ahern.
Watson G. Cutter.
Stephen H. Harrington.
Charles Houlder.
Samuel R. Knights.
Louis Lemon.
John T. Lynch.
Denis J. Moynahan.
William T. Phelan.
Samuel W. Pill.
Frank E. Shaw.
Rolla E. Stockton.
Walter C. Wardwell.
William F. Ware.

FIELD DRIVERS.

Charles F. Aberle.
William H. Aberle.
Richard H. Aylward.
George T. Barrington.
Ernest E. Blanchard.
Elbridge S. Blen.
Charles E. Bradley.
Michael J. Brennan.

Thomas F. Burke.
Thomas M. Campbell.
John J. Canney.
Thomas F. Coady.
John P. Conroy.
Timothy Corcoran.
James A. Cox.
John Coulter.
Edward J. Comerford.
Daniel F. Counihan.
Timothy Crane.
Robert G. Culhane.
Harry W. Davis.
Antone B. Deihl.
John W. Deehan.
Joseph F. Doherty.
Joseph J. Donahue.
Robert J. Douglass, Jr.
Patrick Doyle.
Patrick F. Dunlea.
Thomas F. Dynan.
Frederick M. Ellis.
James B. Forristall.
Joseph H. Furbush.
Locklin Gavin.
Michael A. Ginty.
William B. Ginty.
Herbert Gordon.
William H. Graves.
John J. Griffiths.
Francis H. Gutoski.
Mortimer M. Hackett.
James P. Hall.
Patrick J. Healey.
John A. Hezlitt.
Benjamin F. Higgins.
William H. Hill.
James H. H. Holt.
Edward F. Horrigan.
William H. H. Howe.
Patrick F. Hurley.
Jerome D. Ireland.
Dexter Jewett.
James M. Keaney.
John Kelleher.
Michael J. Kelley.
Patrick D. Kelley.
Fred L. Ladd.
Frank D. La Marche.
Augustus J. Largenton.
Frederick W. Law.
Dennis F. Leahy.
Timothy F. Leahy.
George J. Mahoney.
Charles C. Marston.
John P. Maloy.
Frank McArthur.
Edward J. McCabe.
Bernard McCaffrey.
Joseph F. McCorry.
Jeremiah McCarthy.
Jeremiah P. McCarthy.
John E. McCrehan.
Charles J. McCann.
James L. McElroy.
Richard M. McFadden.
William F. McKeown.
Francis A. McLaughlin.
William H. McMennimen.
James E. McNulty.
Patrick H. McNamara.
Robert E. Mullen.
William N. Mullins.
Simon J. Mulvaney.
Peter J. Murphy.
Patrick F. Murray.
John P. Neilon.
Michael Neilon.
Joseph W. Parks.
George A. Patten.
Charles H. Presho.
Charles W. Priest.
Thomas J. Real.
Ralph R. Rice.

Bernard J. Roper.
Frederick A. Robinson.
William H. Robertson.
John W. Roberts.
Thomas P. Rowe.
William H. Rowe.
Frank W. Scobey.
Benjamin C. Scully.
Joseph H. Shannon.
Thomas J. Shannon.
Thomas Shea.
John J. Sheehan.
Cornelius Sheehan.
John W. Skelley.
George Smyth.
Cornelius Sullivan.
Joseph C. Temple.
David H. Walsh.
David L. Walsh.
Edward J. Welch.
John H. Wells.
Orrin B. White.
John E. Winslow.
Charles W. Wyman.

MEASURERS OF WOOD AND BARK.

Orville R. Cooper.
Herbert T. Lawrence.
Walter H. Nay.
Robert A. Parry.
David C. Proudfoot.
Joseph P. Quilty.
Sewell R. Seaverns.
Charles B. Wendell.

POUND KEEPER.

Robert Holden.

COMMITTEE FOR THE PRESERVATION OF FISH.

Edwin C. Brooks.
Theodore L. Pike.

INSPECTORS OF JUNK SHOPS, PAWNBROKERS' SHOPS AND SECOND-HAND STORES AND DEALERS.

Patrick J. Hurley.
John J. McBride.
James E. Murray.
John F. Murray.

HAY WEIGHERS.

Frank W. Bartlett.
William N. Neally.
George M. David.

PUBLIC WEIGHERS.

Robert C. Bird.
Joseph F. Boyle.
Ernest E. Bradbury.
William C. Coxon.
Theodore P. Clark.
Edward B. Dale.
William D. Donovan.
John E. Fay.
James A. Ferguson.
Alexander S. Ford.
John P. Healy.
Robert Holden.
John H. Holt.
James Knowles.
Neil Macdonald.
Fred W. MacFarland.
Melvin MacFarland.
William Maloney.
Martin McMahon.
John F. Reilly.
John M. Thayer.
James A. Whelan.

INSPECTOR OF PRESSED OR BUNDLED HAY OR STRAW.

Harvey O. Titus.

MEASURERS OF GRAIN.

John C. Connors.
George H. Dinan.

PERSONS

To seize all baskets, measures or vessels used or intended to be used in measuring charcoal, as provided in Sect. 93, Chap. 57, R. L.

John C. Connors.
George H. Dinan

MEASURER AND SURVEYOR.

Henry L. Hale.

SURVEYOR OF MECHANICS' WORK.

Charles A. Mason.

STATE AND CITY ELECTIONS

HELD

NOVEMBER 8, 1904, DECEMBER 13, 1904

RESPECTIVELY

As Corrected by Recounts.

VOTES CAST FOR ELECTORS OF PRESIDENT AND VICE-PRESIDENT, GOVERNOR AND OTHER STATE OFFICERS, REPRESENTATIVE IN CONGRESS, COUNCILLOR, SENATORS, DISTRICT ATTORNEY, COUNTY COMMISSIONER, ASSOCIATE COMMISSIONERS, SHERIFF AND REPRESENTATIVES IN THE GENERAL COURT, FOR CITY OFFICERS, AND ON THE LICENSE QUESTION.

STATE ELECTION, NOVEMBER 8, 1904

CANDIDATES FOR ELECTORS AT LARGE.

Names of Candidates.	Whole Number.	Corregan and Cox.		Debs and Hanford.		Parker and Davis.		Roosevelt and Fairbanks.		Swallow and Carroll.		Watson and Tibbles.	
		Frederick A. Nagler.	Charles N. Wentworth.	John Ellis.	Howard A. Gibbs.	Patrick A. Collins.	Henry W. Ely.	William W. Crapo.	Edwin U. Curtis.	Napoleon B. Johnson.	William H. Partridge.	E. Gerry Brown.	George E. McNeill.
Ward 1, Precinct 1	452	3	3	9	9	324	324	85	85	2	2	1	1
Ward 1, Precinct 2	381	3	3	6	6	257	257	94	94	3	3	..	..
Ward 1, Totals	833	6	6	15	15	581	581	179	179	5	5	1	1
Ward 2, Precinct 1	486	4	4	5	5	318	318	92	92	3	3	1	1
Ward 2, Precinct 2	414	2	2	7	7	297	297	73	73	2	2	3	3
Ward 2, Totals	900	6	6	12	12	615	615	165	165	5	5	4	4
Ward 3, Precinct 1	627	4	4	17	17	502	502	46	46	3	3	..	..
Ward 3, Precinct 2	464	2	2	8	8	327	327	84	84	1	1	..	..
Ward 3, Precinct 3	488	1	1	9	9	290	290	161	161	3	3	1	1
Ward 3, Totals	1,579	7	7	34	34	1,119	1,119	291	291	7	7	1	1
Ward 4, Precinct 1	478	1	1	11	11	254	254	152	152	1	1	2	2
Ward 4, Precinct 2	455	1	1	8	8	165	164	243	243	4	4	..	..
Ward 4, Precinct 3	519	2	2	17	17	163	163	295	295	4	4	1	1
Ward 4, Totals	1,452	4	4	36	36	582	581	690	690	9	9	3	3

Ward 5, Precinct 1.....	563	1	1	10	10	292	292	231	231	..	..	..	..
Ward 5, Precinct 2.....	507	1	1	4	4	180	180	306	306	2	2	1	1
Ward 5, Precinct 3.....	445	1	1	6	6	97	97	321	321	5	5	1	1
Ward 5, Totals.....	1,515	3	3	20	20	569	569	858	858	7	7	2	2
Ward 6, Precinct 1.....	548	1	1	15	15	171	171	315	315	9	9	..	..
Ward 6, Precinct 2.....	564	3	3	10	10	231	231	287	287	3	3	1	1
Ward 6, Precinct 3.....	538	3	3	10	10	131	131	370	370	11	11	1	1
Ward 6, Totals.....	1,650	7	7	35	35	533	533	972	972	23	23	2	2
Ward 7, Precinct 1.....	532	4	4	6	6	102	102	393	393	13	13	1	1
Ward 7, Precinct 2.....	594	3	3	6	6	292	292	250	250	7	7	1	1
Ward 7, Precinct 3.....	579	..	..	7	7	195	195	336	336	17	17	3	3
Ward 7, Totals.....	1,705	7	7	19	19	589	589	979	979	37	37	5	5
Ward 8, Precinct 1.....	426	1	1	4	4	155	155	242	242	4	4	3	3
Ward 8, Precinct 2.....	481	1	1	5	5	152	152	298	298	2	2	1	1
Ward 8, Precinct 3.....	508	..	..	2	2	339	339	142	142	..	..	..	..
Ward 8, Totals.....	1,415	2	2	11	11	646	646	682	682	6	6	4	4
Ward 9, Precinct 1.....	630	..	..	..	..	182	182	416	416	3	3	1	1
Ward 9, Precinct 2.....	655	1	1	5	5	304	303	306	306	2	2	1	1
Ward 9, Totals.....	1,285	1	1	5	5	486	485	722	722	5	5	2	2
Ward 10, Precinct 1.....	463	..	..	2	2	99	99	342	342	4	4	1	1
Ward 10, Precinct 2.....	578	4	4	4	4	275	275	254	254	5	5	1	2
Ward 10, Totals.....	1,041	4	4	6	6	374	374	596	596	9	9	2	3
Ward 11, Precinct 1.....	693	1	1	6	6	252	252	391	391	2	2	3	3
Ward 11, Precinct 2.....	691	8	8	10	10	423	423	181	181	..	..	2	2
Ward 11, Totals.....	1,384	9	9	16	16	675	675	572	572	2	2	5	5
Grand Totals.....	14,759	56	56	209	209	6,769	6,767	6,706	6,706	115	115	31	32

CANDIDATES FOR

NAMES OF CANDIDATES.	GOVERNOR.						LIEUT. GOVERNOR.						SECRETARY.						TREASURER.					
	John Quincy Adams.	John L. Bates.	Michael T. Berry.	Oliver W. Cobb.	William L. Douglas.	Blank.	Olof Bokelund.	John C. Crosby.	Frank P. Dyer.	Curtis Guild, Jr.	Moritz E. Ruther.	Blank.	James A. Bresnahan.	Fannie J. Clary.	Charles C. Hitchcock	Henry R. Little.	William M. Olin.	Blank.	Hubert C. Bartlett.	Arthur B. Chapin.	Edmund D Codman.	Andrew Mortinsen.	Willard O. Wylie.	Blank.
Ward 1, Precinct 1	8	42	3	1	382	16	12	330	4	45	3	58	6	2	13	304	50	77	18	47	304	3	1	79
Ward 1, Precinct 2	5	59	1	....	299	17	8	245	2	69	...	57	10	2	7	212	72	78	10	73	216	2	1	79
Ward 1, Totals....	13	101	4	1	681	33	20	575	6	114	3	115	16	4	20	516	122	155	28	120	520	5	2	158
Ward 2, Precinct 1	9	58	9	1	385	24	12	313	3	62	6	90	11	2	11	267	68	127	10	68	277	6	2	123
Ward 2, Precinct 2	6	33	1	1	357	16	7	300	2	42	1	62	4	1	9	258	44	98	9	45	258	5	2	95
Ward 2, Totals....	15	91	10	2	742	40	19	613	5	104	7	152	15	3	20	525	112	225	19	113	535	11	4	218
Ward 3, Precinct 1	17	46	4	....	512	48	13	440	4	48	4	118	10	3	14	399	49	152	19	46	405	6	1	150
Ward 3, Precinct 2	8	48	....	3	374	31	8	311	3	56	6	80	7	....	10	282	68	97	11	63	289	4	1	96
Ward 3, Precinct 3	11	95	1	2	334	25	16	300	2	111	2	57	3	2	18	263	127	75	18	119	260	2	2	87
Ward 3, Totals....	36	189	5	5	1,240	104	37	1,051	9	215	12	255	20	5	42	944	244	324	48	228	954	12	4	333
Ward 4, Precinct 1	12	119	1	....	307	39	9	260	4	126	2	77	9	....	8	226	134	101	10	123	230	6	2	107
Ward 4, Precinct 2	12	178	....	2	242	21	12	189	8	191	2	53	13	6	12	150	200	74	13	195	155	4	7	81
Ward 4, Precinct 3	16	235	....	3	238	27	16	179	5	261	2	56	6	6	14	142	270	81	17	257	156	1	6	82
Ward 4, Totals....	40	532	1	5	787	87	37	628	17	578	6	186	28	12	34	518	604	256	40	575	541	11	15	270
Ward 5, Precinct 1	7	166	1	....	365	24	4	300	1	190	2	66	9	4	6	250	193	101	8	188	252	5	2	108
Ward 5, Precinct 2	7	273	....	2	217	8	5	191	2	284	..	25	3	1	4	168	286	45	7	279	176	.	1	44
Ward 5, Precinct 3	5	289	2	4	130	15	4	92	7	311	2	29	3	6	5	71	311	49	5	309	79	1	6	45
Ward 5, Totals....	19	728	3	6	712	47	13	583	10	785	4	120	15	11	15	489	790	195	20	776	507	6	9	197

Ward 6, Precinct 1	13	201	2	5	295	32	16	226	7	227	2	70	14	7	18	185	228	96	18	238	176	7	6	103
Ward 6, Precinct 2	10	206	1	....	325	22	16	252	1	237	3	55	8	3	9	220	247	77	13	244	225	5	1	76
Ward 6, Precinct 3	8	296	1	4	209	20	11	146	6	335	4	36	10	6	9	104	352	57	14	340	112	5	8	59
Ward 6, Totals....	31	703	4	9	829	74	43	624	14	799	9	161	32	16	36	509	827	230	45	822	513	17	15	238
Ward 7, Precinct 1	8	33	1	4	165	15	9	112	7	369	1	34	5	5	7	90	369	56	8	364	90	2	5	63
Ward 7, Precinct 2	4	187	....	6	375	22	4	310	7	2 2	....	61	8	7	5	276	218	80	7	212	290	...	4	81
Ward 7, Precinct 3	6	248	1	7	279	38	6	216	14	274	3	66	6	13	33	156	281	90	12	287	177	1	13	89
Ward 7, Tota's....	18	774	2	17	819	75	19	638	28	855	4	161	19	25	45	522	868	226	27	863	557	3	22	233
Ward 8, Precinct 1	4	210	....	1	191	20	4	166	3	210	1	42	....	2	4	140	227	53	6	221	146	2	2	49
Ward 8, Precinct 2	6	250	1	2	207	15	5	164	3	274	2	33	3	3	5	139	287	44	7	276	151	...	2	45
Ward 8, Precinct 3	5	108	...	....	352	43	4	319	1	114	....	70	13	....	4	292	113	86	3	109	300	1	...	95
Ward 8, Totals ..	15	568	1	3	750	78	13	649	7	598	3	145	16	5	13	571	627	183	16	606	597	3	4	189
Ward 9, Precinct 1	4	387	....	1	224	11	2	192	4	400	....	32	6	1	2	161	423	37	3	414	171	1	5	36
Ward 9, Precinct 2	8	271	....	1	354	21	7	324	2	263	....	59	7	1	7	297	282	61	9	269	298	1	1	77
Ward 9, Totals....	12	658	....	2	578	35	9	516	6	663	....	91	13	2	9	458	705	98	12	683	469	2	6	113
Ward 10, Precinct 1	3	318	1	1	131	9	3	105	4	330	....	21	2	2	4	86	345	24	4	325	95	1	4	34
Ward 10, Precinct 2	5	220	3	2	335	13	4	301	7	222	3	41	7	2	3	271	241	54	5	234	270	5	2	62
Ward 10, Totals....	8	538	4	3	466	22	7	4 6	11	552	3	62	9	4	7	357	586	78	9	559	365	6	6	96
Ward 11, P ecinct 1	4	308	1	4	354	22	4	286	3	347	2	51	8	3	7	229	367	79	7	358	245	3	2	78
Ward 11, Precinct 2	5	129	4	2	519	32	9	432	5	152	7	86	17	1	16	405	138	114	17	135	415	10	...	114
Ward 11, Totals....	9	437	5	6	873	54	13	718	8	499	9	137	25	4	23	634	505	193	24	493	660	13	2	192
Grand Totals.....	216	5,319	39	59	8,477	649	230	7,001	121	5,762	60	1,585	208	91	264	6,043	5,990	2,163	288	5,838	6,218	89	89	2,237

CANDIDATES FOR

NAMES OF CANDIDATES	AUDITOR.						ATTORNEY GENERAL.						REP. IN CONGRESS, 8TH DISTRICT.				COUNCILLOR.					SENATOR 2ND SUFFOLK.				SENATOR 2ND MIDDLESEX			
	Charles E. Burnham.	Walter J. Hoar.	Charles Stevens.	Francis X Tetrault.	Henry E. Turner.	Blank.	Henry M. Dean.	John P. Leahy.	Herbert Parker.	John Weaver Sherman.	Thomas Stevenson.	Blank.	Samuel W. McCall.	Thomas A. Scott.	Scattering.	Blank.	George Keefe.	Warren W. Rawson.	George A. Sanderson.	David G. Haskins, Jr.	Blank.	James J. Mellen.	Joseph W. Noble.	Patrick F. O'Neil.	Blank.	James F. Aylward.	James F. Purcell.	William J. Rounds.	Blank.
Wd. 1, Pre. 1	1	4	16	305	49	77	1	307	55	13	13	64	133	90	..	229	26	49	275		102	302	52	21	77				
Wd. 1, Pre. 2	3	2	8	213	74	81	1	219	75	7	1	78	138	54	..	189	10	72	203		96	235	71	12	63				
Wd. 1, Totals	4	6	24	518	123	158	2	526	130	19	14	142	271	144	..	418	36	121	478		198	537	123	33	140				
Wd. 2, Pre. 1	2	7	17	266	67	133	6	282	67	10	5	116	137	66	..	283	17	67	259		143	285	61	12	128				
Wd. 2, Pre. 2	2	3	9	253	42	105	2	261	42	8	1	100	114	65	1	234	17	42	241		114	263	48	17	86				
Wd. 2, Totals	4	10	20	519	109	238	8	543	109	18	6	216	251	131	1	517	34	109	500		257	548	109	29	214				
Wd. 3, Pre. 1	2	4	16	391	41	173	5	401	46	15	4	156	127	97	..	403	31	43	351		202					445	46	63	73
Wd. 3, Pre. 2	1	5	9	282	63	104	1	298	59	13	1	92	132	52	3	277	14	58	263		129					300	8	111	45
Wd. 3, Pre. 3	2	4	25	266	118	73	1	270	116	19	4	78	206	64	4	214	27	112	227		122					293	17	136	42
Wd. 3, Totals	5	13	50	939	222	350	7	969	221	47	9	326	465	213	7	894	72	213	841		453					1,038	71	310	160
Wd. 4, Pre. 1	....	6	8	225	125	114	....	229	119	11	11	108	186	45	1	246	18	118	189		153					248	11	152	67
Wd. 4, Pre. 2	7	7	16	145	190	90	7	152	201	11	4	80	254	48	..	152	21	193	138		97					172	11	22[illegible]	43
Wd. 4, Pre. 3	3	5	18	140	272	81	5	157	264	17	3	73	328	53	1	138	19	255	134		111					164	22	281	52
Wd. 4, Totals	10	18	42	510	587	285	12	538	584	39	18	261	768	146	2	536	58	572	461		361					584	44	662	162
Wd. 5, Pre. 1	....	9	6	255	187	106	3	262	188	8	1	101	285	61	..	217	12	186	227		138					305	6	202	50
Wd. 5, Pre. 2	2	1	5	117	282	50	5	163	293	6	3	37	363	33	3	108	11	282	160		54					195	6	281	25
Wd. 5, Pre. 3	7	1	8	64	317	48	9	62	328	5	1	40	362	15	..	68	7	315	73		50					87	8	323	27
Wd. 5, Totals	9	11	19	486	786	204	17	487	809	19	5	178	1,010	109	3	393	30	783	460		242					587	20	806	102

Wd. 6, Pre. 1	6	10	20	178	243	91	7	179	241	17	5	99	308	65	..	175	26	244	156		122					173	19	289	67
Wd. 6, Pre. 2	4	4	12	211	247	86	4	223	253	12	4	68	321	55	..	188	15	237	205		107					212	11	294	47
Wd. 6, Pre. 3	9	5	12	106	346	60	8	102	360	15	3	50	392	39	..	107	16	352	93		77					107	13	383	35
Wd. 6, Totals	19	19	44	495	836	237	19	504	854	44	12	217	1,021	159	..	470	57	833	454		306					492	43	966	149
Wd. 7, Pre. 1	6	2	8	82	362	72	7	83	367	8	1	66	402	31	..	99	13	360	76		83					89	10	385	48
Wd. 7, Pre. 2	10	2	9	277	204	92	7	287	218	6	....	76	280	55	8	251	14	214	245		121					302	8	230	54
Wd. 7, Pre. 3	13	7	13	170	280	96	13	174	294	14	1	83	357	39	2	181	20	292	162		105					226	14	284	55
Wd. 7, Totals	29	11	30	529	846	260	27	544	879	28	2	225	1,039	125	10	531	47	866	483		309					617	32	899	157
Wd. 8, Pre. 1	2	....	7	136	222	59	3	126	244	8	....	45	279	32	2	113	8	214	130		74					170	7	217	32
Wd. 8, Pre. 2	4	2	5	145	284	41	5	139	293	5	1	38	356	30	3	92	13	278	131	1	58					182	4	257	38
Wd. 8, Pre. 3	2	3	5	295	108	95	3	299	113	3	1	89	161	61	..	286	7	112	277		112					319	4	125	60
Wd. 8, Totals	8	5	17	576	614	195	11	564	650	16	2	172	796	123	5	491	28	604	538	1	244					671	15	599	130
Wd. 9, Pre. 1	8	3	3	148	417	51	3	149	441	3	....	34	495	24	4	107	5	408	154		63					203	1	390	36
Wd. 9, Pre. 2	2	....	7	293	269	84	5	276	296	9	1	68	376	52	3	224	11	277	273		94					331	11	278	35
Wd. 9, Totals	10	3	10	441	686	135	8	425	737	12	1	102	871	76	7	331	16	685	427		157					534	12	668	71
Wd. 10, Pre. 1	6	3	3	85	334	32	8	73	345	5	1	31	398	18	4	43	4	337	77		45					98	4	334	27
Wd. 10, Pre. 2	3	4	4	268	233	66	2	276	239	7	2	52	293	54	..	231	10	232	252		84					288	7	247	36
Wd. 10, Totals	9	7	7	353	567	98	10	349	584	12	3	83	691	72	4	274	14	569	329		129					386	11	581	63
Wd. 11, Pre. 1	3	3	6	239	360	82	8	231	355	7	7	85	457	47	3	186	9	354	236		94					267	8	368	50
Wd. 11, Pre. 2	1	10	18	404	141	117	4	413	143	12	8	111	262	70	2	357	19	153	373		146					418	25	183	65
Wd. 11, Totals	4	13	24	643	501	199	12	644	498	19	15	196	719	117	5	543	28	507	609		240					685	33	551	115
Grand Totals	111	116	287	6,009	5,877	2,359	133	6,093	6,055	273	87	2,118	7,902	1,415	44	5,398	420	5,862	5,580	1	2,896	1,085	232	62	354	5,594	281	6,042	1,109

CANDIDATES FOR REPRESENTATIVES IN GENERAL COURT.

	3rd Middlesex.				2nd Middlesex.							4th Middlesex.								1st Middlesex.				5th Middlesex.				
Names of Candidates.	James T. Barrett.	Jonas F. Capelle.	Matthew McDonald.	Blank.	Jeremiah F. Downey.	Lester B. Harlow.	William H. Joyce.	Timothy J. Reagan.	Edward J. Sennott.	Walter P. Thorne.	Blank.	Edward E. Clark.	John W. Ducharme	Eben H. Googins.	Samuel F. McArthur.	Lewis G. Spachman.	Daniel J. Toomey.	Blank.	Tom Dolls.	William P. Nickerson.	W. Rodman Peabody.	Thomas F. Rooney.	Blank.	Frederick S. Deitrick.	George W. Long.	John T. Morris.	Blank.
Ward 1, Prec. 1.	280	73	33	66																							
Ward 1, Prec. 2.	223	87	17	54																							
Ward 1, Totals..	503	160	50	120																							
Ward 2, Prec. 1.	316	66	22	82																							
Ward 2, Prec. 2.	267	62	20	65																							
Ward 2, Totals..	583	128	42	147																							
Ward 3, Prec. 1.					457	46	94	36	399	8	214																
Ward 3, Prec 2.					300	69	105	13	285	12	144																
Ward 3, Prec. 3.					280	110	136	19	265	19	147																
Ward 3, Totals..					1,037	225	335	68	949	39	505																
Ward 4, Prec. 1.					242	140	118	13	229	13	201																
Ward 4, Prec. 2.					158	208	197	14	157	12	164																
Ward 4, Prec. 3.					148	252	255	25	134	18	206																
Ward 4, Totals..					548	600	570	52	520	43	571																
Ward 5, Prec. 1.					280	168	199	14	262	6	197																
Ward 5, Prec. 2.					162	275	287	9	147	8	126																
Ward 5, Prec. 3.					66	303	298	6	64	7	146																
Ward 5, Totals..					508	746	784	29	473	21	469																

Ward 6, Prec. 1.												255	22	244	145	17	158	255	...									
Ward 6, Prec. 2.												258	18	250	161	9	197	235	...									
Ward 6, Prec. 3.												372	17	358	77	11	88	153	...									
Ward 6, Totals..												885	57	852	383	37	443	643	...									
Ward 7, Prec. 1.												360	11	355	54	11	71	202	...									
Ward 7, Prec. 2.												227	11	226	199	5	258	260	2									
Ward 7, Prec. 3.												293	10	280	142	5	164	264	...									
Ward 7, Totals..												880	32	861	395	21	493	726	2									
Ward 8, Prec. 1.																				138	247	6	35					
Ward 8, Prec. 2.																				132	300	7	42					
Ward 8, Prec. 3.																				310	118	4	76					
Ward 8, Totals..																				580	665	17	153					
Ward 9, Prec 1.																				135	454	4	37					
Ward 9, Prec. 2.																				277	293	16	69					
Ward 9, Totals..																				412	747	20	106					
Ward 10, Prec. 1																								117	316	2	28	
Ward 10, Prec. 2																								326	221	6	25	
Ward 10, Totals.																								443	537	8	53	
Ward 11, Prec. 1																								298	357	8	30	
Ward 11, Prec 2																								471	185	11	24	
Ward 11, Totals.																								769	542	19	54	
Grand Totals....	1,086	288	92	267	2,093	1,571	1,689	149	1,942	103	1,545	1,765	89	1,713	778	58	936	1,369	2	992	1,412	37	259	1,212	1,079	27	107	

Names of Candidates.	CANDIDATES FOR DISTRICT ATTORNEY.				CANDIDATES FOR COUNTY COMMISSIONER.				CANDIDATES FOR ASSOCIATE COMMISSIONERS.						CANDIDATES FOR SHERIFF.			
	John J. Devine.	Squire E. Putney.	George A. Sanderson.	Blank.	Francis Bigelow.	Charles F. Drury.	James E. Kelley.	Blank.	Laughlin Cameron.	Embert E. Hopkins.	David T. Strange.	Edward Everett Tompson.	Blank.	John White.	Frederick Bancroft.	John R. Fairbairn.	John L. Mulholland.	Blank.
Ward 1, Precinct 1	293	17	52	90	57	15	286	94	62	77	60	53	652	....	231	120	17	84
Ward 1, Precinct 2	206	8	82	85	76	7	215	83	33	47	73	51	558	....	189	116	7	69
Ward 1, Totals	499	25	134	175	133	22	501	177	95	124	133	104	1,210	....	420	236	24	153
Ward 2, Precinct 1	265	17	64	140	64	15	266	141	43	52	67	42	768	....	241	103	13	129
Ward 2, Precinct 2	243	13	30	128	41	11	253	109	45	58	47	33	645	....	223	86	10	95
Ward 2, Totals	508	30	94	268	105	26	519	250	88	110	114	75	1,413	....	464	189	23	224
Ward 3, Precinct 1	368	25	59	175	52	20	390	165	79	82	63	52	978	....	365	85	22	155
Ward 3, Precinct 2	276	14	6	106	62	14	292	96	45	53	69	66	695	....	273	91	13	87
Ward 3, Precinct 3	243	20	121	104	118	20	256	94	60	70	120	116	610	....	241	143	18	86
Ward 3, Totals	887	59	248	385	232	54	938	355	184	205	252	234	2,283	....	879	319	53	328
Ward 4, Precinct 1	215	10	129	124	126	9	218	125	33	38	131	120	634	....	206	140	9	123
Ward 4, Precinct 2	141	18	203	93	204	16	146	89	43	54	192	174	447	....	138	224	15	78
Ward 4, Precinct 3	140	23	264	92	272	20	137	90	44	53	266	234	441	....	131	287	22	79
Ward 4, Totals	496	51	596	309	602	45	501	304	120	145	589	528	1,522	....	475	651	46	280
Ward 5, Precinct 1	238	12	191	122	188	10	246	119	54	65	194	163	650	....	229	217	12	105
Ward 5, Precinct 2	154	5	293	55	293	4	159	51	22	33	288	265	406	....	147	312	6	42
Ward 5, Precinct 3	57	8	323	57	319	10	62	54	11	16	302	278	283	....	76	321	8	40
Ward 5, Totals	449	25	807	234	800	24	467	224	87	114	784	706	1,339	....	452	850	26	187

Ward 6, Precinct 1	164	24	259	101	257	24	160	107	45	58	234	220	539	....	158	272	21	97
Ward 6, Precinct 2	210	15	254	85	259	13	214	78	34	52	248	234	556	....	205	265	19	75
Ward 6, Precinct 3	96	18	361	63	364	16	96	62	22	34	358	313	349	....	90	373	19	56
Ward 6, Totals	470	57	874	249	880	53	470	247	105	144	840	767	1,444	....	453	910	59	228
Ward 7, Precinct 1	70	14	367	81	367	12	68	85	19	31	363	342	309	....	67	386	8	71
Ward 7, Precinct 2	260	10	218	106	221	10	266	97	39	47	215	196	691	....	260	237	10	87
Ward 7, Precinct 3	159	18	297	105	308	17	173	81	29	50	283	237	559	....	167	316	11	85
Ward 7, Totals	489	42	882	292	896	39	507	263	87	128	861	775	1,559	....	494	939	29	243
Ward 8, Precinct 1	133	7	229	57	230	7	128	61	26	33	221	191	381	....	127	238	6	55
Ward 8, Precinct 2	123	10	288	60	290	6	130	55	28	33	281	231	389	....	134	295	5	47
Ward 8, Precinct 3	299	4	113	92	114	5	296	93	47	62	100	85	722	....	297	119	6	86
Ward 8, Totals	555	21	630	209	634	18	554	209	101	128	602	507	1,492	....	558	652	17	188
Ward 9, Precinct 1	135	5	438	52	436	2	129	63	17	26	398	337	482	....	149	440	3	38
Ward 9, Precinct 2	275	8	295	77	284	10	273	88	30	45	276	239	720	....	278	299	9	69
Ward 9, Totals	410	13	733	129	720	12	402	151	47	71	674	576	1,202	....	427	739	12	107
Ward 10, Precinct 1	63	8	350	42	346	5	70	42	13	31	314	263	305	....	68	356	3	36
Ward 10, Precinct 2	259	9	247	63	242	8	264	64	36	48	225	204	643	....	264	253	13	48
Ward 10, Totals	322	17	597	105	588	13	334	106	49	79	539	467	948	....	332	609	16	84
Ward 11, Precinct 1	216	12	372	93	370	11	220	92	34	51	343	286	671	1	230	392	7	64
Ward 11, Precinct 2	393	27	139	132	144	21	398	128	57	88	147	117	973	....	406	144	27	114
Ward 11, Totals	609	39	511	225	514	32	618	220	91	139	490	403	1,644	1	636	536	34	178
Grand Totals	5,694	379	6,106	2,580	6,104	338	5,811	2,506	1,054	1,387	5,878	5,142	16,056	1	5,590	6,630	339	2,200

MUNICIPAL ELECTION, DECEMBER 13, 1904.

CANDIDATES FOR

Wards and Precincts.	Mayor					Assessor.					License		
	Augustine J. Daly.	John H. H. McNamee.	Thomas A. Scott.	Charles E. Simpson.	Blank and Scattering.	William Cavanaugh.	James Grant.	Daniel B. Shaughnessy.	Arthur M. Stewart.	Blank and Scattering.	Yes.	No.	Blank.
Ward 1, Prec. 1..	130	358	7	..	4	10	8	391	62	28	255	159	85
Ward 1, Prec. 2..	118	311	1	5	3	9	12	347	52	18	199	173	66
Ward 1, Totals...	248	669	8	5	7	19	20	738	114	46	454	332	151
Ward 2, Prec. 1..	132	415	3	2	4	14	9	441	59	33	261	206	89
Ward 2, Prec. 2..	112	332	3	2	1	8	7	366	49	20	188	184	79
Ward 2, Totals...	244	747	6	4	5	22	16	807	108	53	449	390	168
Ward 3, Prec. 1..	130	521	11	2	9	19	12	523	64	55	302	215	156
Ward 3, Prec. 2..	110	389	5	1	4	7	12	391	66	33	248	173	88
Ward 3, Prec. 3..	159	301	7	17	7	17	25	318	107	24	194	222	75
Ward 3, Totals...	399	1,211	23	20	20	43	49	1,232	237	112	744	610	319
Ward 4, Prec. 1..	149	333	3	9	16	16	29	303	93	69	245	164	101
Ward 4, Prec. 2..	275	164	4	12	8	12	19	188	205	39	151	255	57
Ward 4, Prec. 3..	333	169	7	8	9	19	24	168	290	25	128	347	51
Ward 4, Totals...	757	666	14	29	33	47	72	659	588	133	524	766	209
Ward 5, Prec. 1	240	296	1	12	2	6	21	320	183	21	158	334	59
Ward 5, Prec. 2..	343	150	1	6	3	2	13	190	280	18	81	383	39
Ward 5, Prec. 3..	370	75	1	9	2	4	19	72	348	14	64	363	30
Ward 5, Totals...	953	521	3	27	7	12	53	582	811	53	303	1,080	128
Ward 6, Prec. 1..	300	214	13	17	12	19	33	211	254	39	214	286	56
Ward 6, Prec. 2..	322	240	5	14	4	14	37	233	279	22	185	338	62
Ward 6, Prec. 3..	380	136	6	13	2	10	23	127	363	14	88	401	48
Ward 6, Totals...	1,002	590	24	44	18	43	93	571	896	75	487	1,025	166
Ward 7, Prec. 1..	399	100	1	24	8	9	40	85	369	29	94	384	54
Ward 7, Prec. 2..	253	342	2	13	8	7	30	331	216	34	223	312	82
Ward 7, Prec. 3..	344	209	1	33	9	9	56	196	290	45	147	345	104
Ward 7, Totals...	996	651	4	70	25	25	126	612	875	108	464	1,041	240
Ward 8, Prec. 1..	269	145	1	5	4	1	5	153	249	16	106	268	50
Ward 8, Prec. 2..	343	132	..	3	5	2	18	138	306	19	111	325	47
Ward 8, Prec. 3..	158	383	..	2	5	3	14	373	132	26	261	210	77
Ward 8, Totals...	770	660	1	10	14	6	37	664	687	61	478	803	174
Ward 9, Prec. 1..	503	124	..	2	4	1	13	128	469	22	128	462	43
Ward 9, Prec. 2..	371	316	3	3	5	10	15	331	319	23	214	406	78
Ward 9, Totals...	874	440	3	5	9	11	28	459	788	45	342	868	121
Ward 10, Prec. 1..	372	64	1	4	3	3	15	63	348	15	49	370	25
Ward 10, Prec. 2..	297	285	2	3	4	8	18	292	257	16	191	331	69
Ward 10, Totals..	669	349	3	7	7	11	33	355	605	31	240	701	94
Ward 11, Prec. 1..	423	243	1	11	3	12	33	244	367	25	158	463	60
Ward 11, Prec. 2..	214	476	2	6	10	16	23	474	153	42	270	326	112
Ward 11, Totals..	637	719	3	17	13	28	56	718	520	67	428	789	172
Grand Totals.....	7,549	7,223	92	238	157	267	583	7,397	6,229	784	4,913	8,405	1,942

CANDIDATES FOR SCHOOL COMMITTEE

For Three Years.									For One Year.					
At Large.			Ward 1.		Ward 8.		Ward 10.		Ward 3.		Ward 4.		Ward 11.	
George W. Bicknell.	Sherman R. Lancaster.	Blank and Scattering.	Robert Walker.	Blank and Scattering.	Charles H. Thurston.	Blank and Scattering.	Frank E. Sands.	Blank and Scattering.	Joseph E. Sharkey.	Blank and Scattering	Edwin L. Cheney.	Blank	John E. Somers.	Blank.
227	230	547	268	234	243	259	201	301	247	255	202	300	209	293
221	216	439	251	187	204	234	193	245	221	217	192	246	186	252
448	446	986	519	421	447	493	394	546	468	472	394	546	395	545
241	240	637	261	298	232	327	216	343	253	306	206	353	214	345
180	181	545	212	241	186	267	164	289	212	241	159	294	163	290
421	421	1,182	473	539	418	594	380	632	465	547	365	647	377	635
255	266	825	254	419	257	416	217	456	291	382	218	455	215	458
240	235	549	224	288	238	274	202	310	272	240	198	314	208	304
265	255	468	233	261	234	260	206	288	259	235	209	285	214	280
760	756	1,842	711	968	729	950	625	1,054	822	857	625	1,054	637	1,042
231	209	582	221	290	207	304	196	315	215	296	202	309	180	331
307	278	363	269	205	273	201	245	229	260	214	265	209	245	229
372	347	373	329	217	325	221	300	246	306	240	327	219	294	252
910	834	1,318	819	712	8 5	726	741	790	781	750	794	737	719	812
341	314	469	317	245	328	234	290	272	316	246	285	277	289	273
439	412	235	399	144	402	141	390	153	403	140	381	162	385	158
456	441	131	406	108	385	129	390	124	378	136	393	121	385	129
1,236	1,167	835	1,122	497	1,115	504	1,070	549	1,097	522	1,059	560	1,059	560
351	341	430	308	253	289	272	276	285	268	293	269	292	265	296
366	353	463	335	256	328	263	301	290	311	280	310	281	303	288
452	440	258	410	165	404	171	396	179	378	197	393	182	385	190
1,169	1,134	1,151	1,053	674	1,021	706	973	754	957	770	972	755	953	774
445	415	256	388	170	362	196	361	197	338	220	354	204	338	220
392	367	505	365	267	400	232	342	290	378	254	332	300	349	283
378	358	490	343	270	330	283	324	289	315	298	316	297	321	292
1,215	1,140	1,251	1,096	707	1,092	711	1,027	776	1,031	772	1,002	801	1,008	795
337	315	246	302	147	341	108	292	157	304	145	288	161	303	146
402	383	225	356	149	402	103	349	156	356	149	340	165	343	162
306	294	516	272	286	375	183	260	298	296	262	255	303	274	284
1,045	992	987	930	582	1,118	394	901	611	956	556	883	629	920	592
550	539	265	522	155	493	184	509	168	477	200	495	182	494	183
475	450	509	453	264	481	236	435	282	458	259	450	287	448	269
1,025	989	774	975	419	974	420	944	450	935	459	925	469	942	452
398	373	157	361	103	350	114	379	85	341	123	356	108	357	107
449	437	378	426	206	413	219	432	200	411	221	407	225	453	179
847	810	535	787	309	763	333	811	285	752	344	763	333	810	286
475	455	456	441	252	452	241	442	251	426	267	418	275	505	188
383	382	657	352	359	352	359	337	374	362	349	333	378	429	282
858	837	1,113	793	611	804	600	779	625	788	616	751	653	934	470
9,934	9,526	11,974	9,278	6,439	9,286	6,432	8,645	7,072	9,052	6,665	8,533	7,184	8,754	6,963

CANDIDATES FOR ALDERMEN.

NAMES OF CANDIDATES.	John Allen.	William T. Anderson.	Manuel Andrew.	Joseph O. Authier.	Edward A. Barnard.	J. Edward Barry.	Warren K. Blodgett.	Nicholas F. Burke.	George B. Caswell.	William E. Chandler.	John W. Coveney.	Walter I. Cowlishaw.	Howland Dudley.	Samuel D. Elmore.	Francis J. Fahy.	Michael H. Flynn.	Frederic Forehand.	William Grandison.	Leon Gustin.	John T. Hart.	Embert E. Hopkins.	Edward B. James.	Harry W. Joel.	Charles H. Lake.	Robert C. Lehman.	James Livingston.	Maurice M. Lynch.	Emory T. Morris.	John T. Morris.	John A. Nilson.	James F. Purcell.	James F. Quinn.	Timothy J. Reagan.	Thomas F. Rooney.	Lewis G. Spachman.	Joseph R. Tierney.	Edward Tigue.	Francis Traynor.	Francis P. White.	Blank and Scattering.
WARD 1.																																								
Prec. 1.....	135	19	385	306	73	337	79	326	63	12	116	7	60	60	333	333	5	8	13	340	9	324	69	68	10	17	326	55	7	63	14	331	8	9	5	5	8	5	320	826
" 2.....	100	16	324	271	79	288	81	283	78	6	101	11	70	73	316	276	15	14	7	286	6	284	84	71	8	18	277	61	3	70	5	282	3	2	3	2	3	14	265	662
Wd. 1 Tot's	235	35	709	577	152	625	160	609	141	18	217	18	130	133	649	609	20	22	20	626	15	608	153	139	18	35	603	116	10	133	19	613	11	11	8	7	11	19	585	1488
WARD 2.																																								
Prec. 1.....	121	24	388	351	88	379	100	357	86	12	143	8	84	85	378	368	15	9	10	370	3	365	91	81	6	28	366	63	9	81	10	366	10	8	6	5	6	11	342	883
" 2.....	92	21	328	290	68	282	73	296	62	8	109	10	63	66	321	297	11	6	8	330	6	296	67	65	8	11	293	53	6	56	12	298	12	8	5	4	5	2	286	737
Wd. 2 Tot's	213	45	716	641	156	661	173	653	148	20	252	18	147	151	699	665	26	15	18	700	9	661	158	146	14	39	659	116	15	137	22	664	22	16	11	9	11	13	628	1610
WARD 3.																																								
Prec. 1.....	98	21	502	458	75	496	74	469	61	28	109	12	58	66	482	479	16	7	22	475	20	466	79	65	13	19	473	57	33	55	25	519	17	11	14	13	17	11	455	1033
" 2.....	75	14	380	369	75	386	76	369	69	7	93	5	55	74	376	382	4	3	9	368	8	375	80	63	5	11	373	64	14	61	10	385	10	9	6	7	8	7	348	555
" 3.....	128	33	301	277	128	290	123	279	117	12	154	24	117	109	288	294	20	23	14	298	14	288	120	104	12	23	283	101	11	117	14	291	11	10	11	11	15	18	264	654
Wd. 3 Tot's	301	68	1183	1104	278	1172	273	1117	247	47	356	41	230	249	1146	1155	40	33	45	1141	42	1129	279	232	30	53	1129	222	58	233	49	1195	38	30	31	31	40	36	1067	2242
WARD 4.																																								
Prec. 1.....	103	30	298	280	101	291	100	284	90	6	104	24	95	91	284	302	28	30	5	282	5	290	101	82	3	24	286	93	3	78	7	295	7	5	6	3	7	22	282	1183
" 2.....	218	31	162	157	215	178	219	158	214	14	223	19	190	208	163	196	24	25	7	163	9	165	210	202	9	24	160	182	11	202	13	168	10	8	8	7	8	26	151	736
" 3.....	299	40	154	154	289	162	290	157	291	22	294	29	279	279	153	180	25	27	12	149	16	155	277	261	14	18	145	260	8	256	15	158	11	9	13	13	12	23	149	688
Wd. 4 Tot's	620	101	614	591	605	631	609	599	595	42	621	72	564	578	600	678	77	82	24	594	30	610	588	545	26	66	591	533	22	536	35	621	28	22	27	23	27	71	582	2607
WARD 5.																																								
Prec. 1.....	213	32	280	259	203	302	200	276	203	7	230	30	192	193	272	276	21	24	4	272	6	272	187	191	5	24	268	181	5	181	8	276	5	3	3	3	2	28	254	670
" 2.....	311	20	148	141	299	181	307	147	301	2	311	14	294	306	146	158	14	16	2	146	3	157	284	303	1	18	141	273	2	279	3	138	2	3	2	2	1	20	133	504
" 3.....	346	16	61	66	351	84	359	61	354	9	355	21	346	346	62	74	14	14	5	66	8	76	318	345	5	20	57	330	5	333	5	60	3	4	2	5	1	14	63	363
Wd. 5 Tot's	870	68	489	466	853	567	866	484	858	18	896	65	832	845	480	508	49	54	11	484	17	505	789	839	11	62	466	784	12	793	16	474	10	10	7	10	4	62	450	1537

WARD 6.																																							
Prec. 1.....	257	48	203	207	250	201	250	199	243	24	254	44	228	247	192	222	36	40	20	203	23	202	244	243	23	39	195	227	18	243	20	200	21	16	17	16	17	37	198	749
" 2. ...	271	33	215	219	265	247	262	215	2-3	13	262	36	240	265	211	243	28	31	15	216	17	226	271	241	16	32	215	232	14	244	11	221	14	9	9	9	8	32	231	833
" 3.....	353	34	110	109	3-6	129	361	111	360	14	353	29	341	345	113	125	29	17	7	104	14	131	321	338	10	28	108	314	10	328	10	119	9	9	11	13	12	22	112	578
Wd. 6 Tot's	881	115	528	535	881	577	873	625	866	51	869	109	809	857	516	590	93	88	42	523	54	559	836	832	49	99	518	773	42	815	41	540	44	34	37	38	37	91	541	2160
WARD 7.																																								
Prec. 1.....	364	44	71	74	383	87	375	69	379	15	365	52	351	357	67	81	34	35	5	78	5	85	335	346	4	34	72	332	1	336	3	73	2	1	3	1	2	36	89	806
" 2.....	215	37	310	311	216	331	214	314	216	7	2 5	34	199	212	313	331	23	24	4	322	3	328	198	199	3	22	323	199	4	188	5	323	4	4	4	4	4	26	232	766
" 3.....	291	62	193	177	297	193	3 01	187	301	13	287	48	283	304	181	199	46	42	5	192	8	189	279	269	7	40	190	247	6	240	5	185	5	5	2	4	4	37	257	975
Wd. 7 Tot's	870	143	574	562	896	611	890	570	896	35	867	134	833	873	561	611	103	101	14	592	16	602	812	814	14	96	585	778	11	764	13	581	11	10	9	9	10	99	678	2547
WARD 8.																																								
Prec. 1.....	243	16	113	139	250	154	252	143	245	1	243	9	237	242	140	138	12	10	3	147	..	149	230	246	1	7	141	233	2	238	4	138	3	1	1	2	1	5	133	362
" 2.....	316	32	117	121	323	138	332	127	313	8	316	12	307	319	119	121	23	10	5	124	3	145	308	313	1	15	122	290	2	290	2	117	..	2	1	..	..	16	120	383
" 3. . .	127	24	367	356	130	385	132	372	125	3	130	15	111	123	365	365	11	17	..	369	1	372	119	135	..	13	367	111	5	101	3	366	1	4	..	1	2	9	362	529
Wd. 8 Tot's	686	72	624	616	703	677	716	642	683	12	689	36	655	684	624	624	46	37	8	640	4	666	657	694	2	35	630	534	9	629	9	621	4	7	2	3	3	30	615	1274
WARD 9.																																								
Prec. 1	470	27	104	114	477	139	4 5	112	471	4	465	16	464	467	106	117	19	22	2	115	4	129	437	465	2	23	110	447	8	440	1	109	2	5	3	1	1	17	111	461
" 2	339	25	396	301	341	320	343	306	339	6	346	13	325	335	301	305	13	13	6	307	4	310	317	339	4	13	294	314	4	317	4	303	5	8	3	3	3	16	296	531
Wd 9 Tot's	809	52	4.0	415	818	459	828	418	810	10	811	29	789	802	407	422	32	35	8	422	8	439	754	804	6	36	404	861	12	757	5	412	7	13	6	4	4	33	407	992
WARD 10.																																								
Prec. 1.....	314	19	52	52	351	63	353	59	339	3	338	16	345	340	53	56	26	13	2	60	2	61	325	33?	2	21	53	323	6	317	3	55	2	1	3	2	3	12	53	426
" 2.....	275	22	268	275	269	279	275	285	268	3	274	14	269	265	268	274	20	18	5	274	4	274	256	261	3	20	267	251	9	244	5	273	3	3	2	3	7	9	263	444
Wd 10Tot's	619	41	320	327	620	342	628	344	607	6	61	30	614	605	321	330	46	31	7	334	6	335	581	591	5	41	320	574	15	561	8	328	5	4	5	5	10	21	316	870
WARD 11.																																								
Prec. 1.....	375	39	215	245	369	238	377	228	364	11	380	31	363	378	217	211	32	26	6	223	4	224	359	367	5	25	228	336	5	342	3	218	4	2	3	2	2	27	210	807
" 2.....	174	38	455	485	140	458	161	469	142	8	165	19	147	150	457	458	24	25	6	455	4	455	139	141	7	23	497	126	9	131	5	451	3	8	4	4	4	19	444	875
Wd.11Tot's	549	77	670	730	509	686	538	697	506	19	545	50	510	528	774	669	56	51	12	678	8	679	498	508	12	48	725	462	14	473	8	672	7	10	7	6	6	46	654	1682
Gr'nd Tot's	6653	817	6840	6564	6471	6990	6554	6658	6357	278	6735	602	6113	6305	6777	6861	588	549	209	6734	209	6793	6105	6134	187	611	6630	5755	220	5831	225	6721	187	167	150	145	163	521	6523	19,009

CANDIDATES FOR COMMON COUNCIL.

WARD ONE.

	Dinan.	Fay.	McDonald.	Sullivan.	Blank.
Precinct 1	362	42	52	460	142
" 2	302	47	42	319	166
Ward 1, Totals	664	89	94	719	308

WARD TWO.

	Hogan.	Williams.	Snow.	Blank.
Precinct 1	427	410	....	275
" 2	334	358	1	209
Ward 2, Totals	761	768	1	484

WARD THREE.

	Black.	Cronin.	Keefe.	Maron.	Rowley.	Thorne.	Blank.
Precinct 1	520	495	38	76	70	27	120
" 2.	380	380	14	76	72	10	86
" 3	300	297	21	130	114	21	99
Ward 3, Totals	1,200	1,172	73	282	256	58	305

WARD FOUR.

	Crowley.	Garland.	Hazel.	Norton.	Smithers.	Blank.
Precinct 1	296	11	114	304	119	176
" 2	192	14	189	175	221	135
" 3	160	26	269	156	305	136
Ward 4, Totals	648	51	572	635	645	447

CANDIDATES FOR COMMON COUNCIL.

WARD FIVE.

	Chase.	Harlow.	MacLeod.	Monk.	Blank.
Precinct 1	208	181	317	112	284
" 2	336	233	222	68	147
" 3	360	301	111	50	92
Ward 5, Totals	904	715	650	230	523

WARD SIX.

	Beaumont.	Casey.	Gardner.	Giles.	Hall.	Penniman.	Hill.	Winslow.	Blank.
Precinct 1	28	218	189	240	51	258	.....	.....	128
" 2	16	231	182	271	57	285	.....	1	127
" 3	11	125	106	348	39	362	1	1	81
Ward 6, Totals	55	574	477	859	147	905	1	2	336

WARD SEVEN.

	Dow.	Kidder.	Meyers.	Mulvihill.	Polack.	Blank.
Precinct 1	384	90	376	74	46	94
" 2	212	305	210	322	56	129
" 3	309	191	283	182	76	151
Ward 7, Totals	905	586	869	578	178	374

WARD EIGHT.

	Bradford.	Davies.	Merrill.	Stephens.	Blank.
Precinct 1	178	145	227	244	54
" 2	139	120	309	330	68
" 3	368	376	139	132	81
Ward 8, Totals	685	641	675	706	203

CANDIDATES FOR COMMON COUNCIL.

WARD NINE.

	Burns.	Crane.	Curry.	Stetson.	Hazel.	Blank.
Precinct 1	123	463	116	470	1	93
" 2	338	313	313	342	....	90
Ward 9, Totals	461	776	429	812	1	183

WARD TEN.

	Fegan.	Hillery.	Thayer.	Wood.	Blank.
Precinct 1	37	57	337	367	90
" 2	255	261	274	295	97
Ward 10, Totals	292	318	611	662	187

WARD ELEVEN.

	Jones.	Nelligan.	O'Neil.	Webb.	Blank.
Precinct 1	377	244	245	367	129
" 2	140	498	489	156	133
Ward 11, Totals	517	742	734	523	262

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